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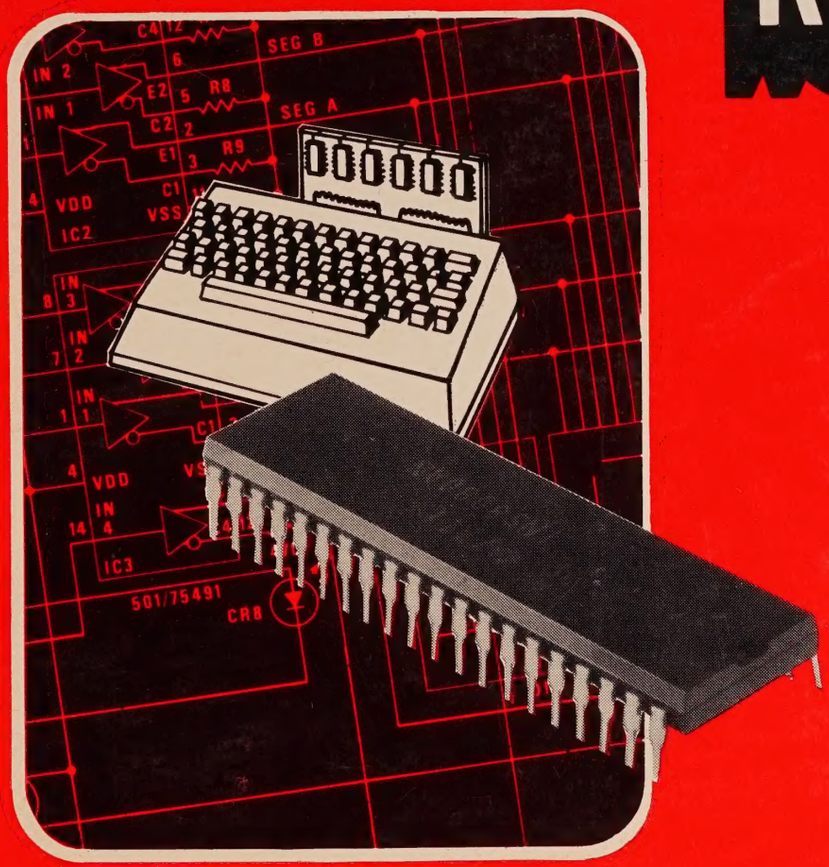
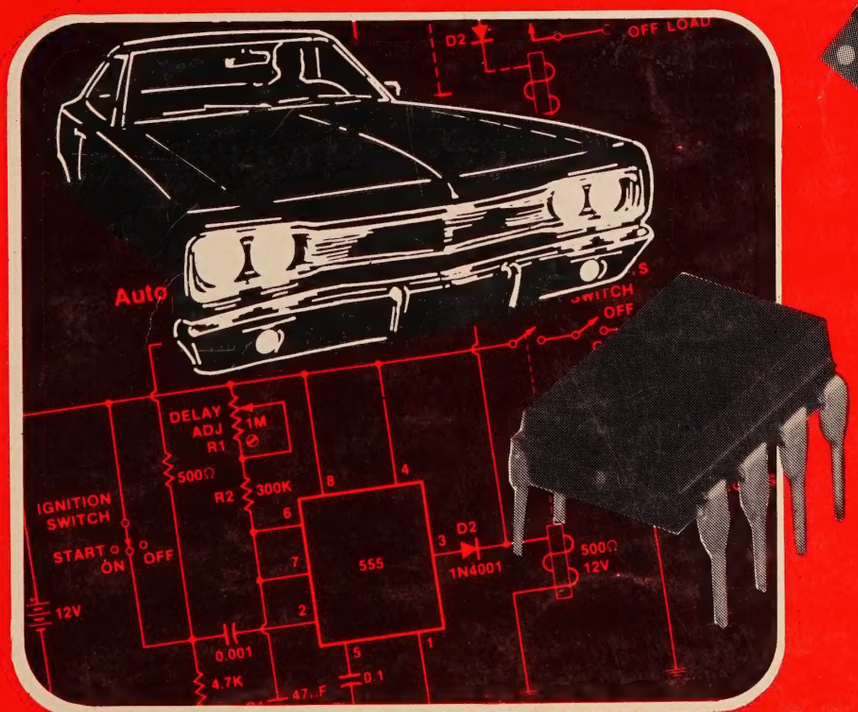
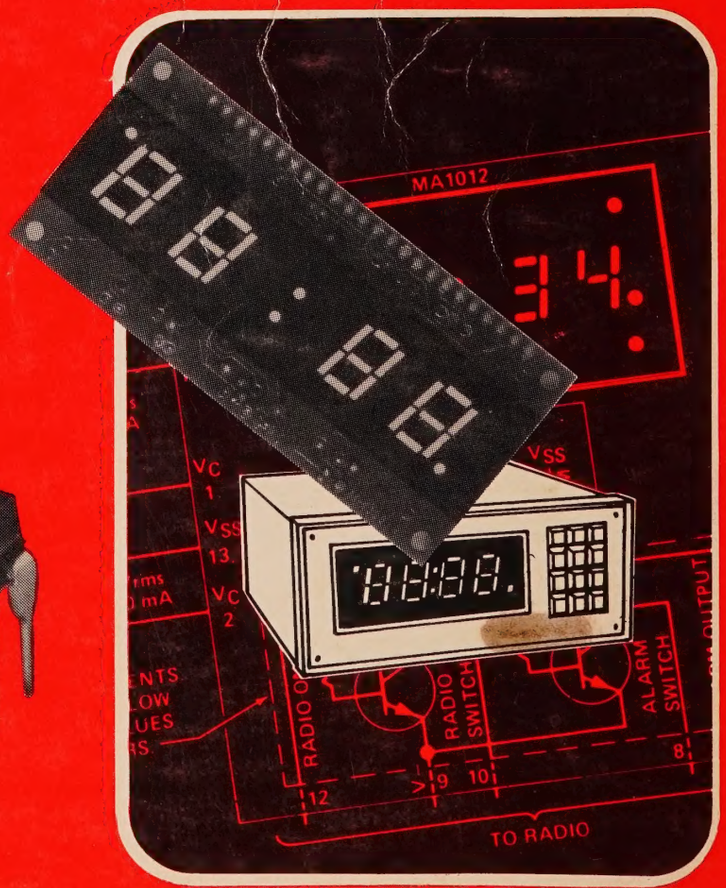
1978 EDITION

SEMICONDUCTOR REFERENCE and application HANDBOOK



INCLUDES OVER 46,000 SEMICONDUCTOR SUBSTITUTIONS





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INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 46,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in **every** instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconduct devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimenter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 46,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

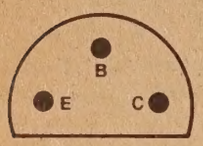
(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or

terminal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

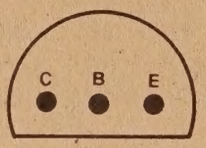
CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Double-check both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW

PIN-CIRCLE



IN-LINE



(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a tuned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B, AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, especially in FM radios and TV Receivers. Failure to observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.

2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.

3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.

4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.

5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with long-nose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semiconductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based **on electrical parameters (not necessarily on mechanical size or type).** Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

A. First, check to see if the emitter-base junction is forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by I_{CES} (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower I_{CES} is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the - battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

A. Small Signal PNP Germanium Transistors
1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

B. Small Signal NPN Germanium Transistors
Reverse the polarity of the leads; the readings should be approximately the same.

C. Power PNP Germanium Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
2. Connect the negative lead to the collector. The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

D. Power NPN Germanium Transistors
Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors
Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors
Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures shoud be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.

2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.

3. Transient voltages may cause permanent damage to the device if it is removed, or inserted, with the power on.

4. Do not apply signals to the inputs with the power supply off.

5. All unused input leads must be connected to either V_{SS} or V_{DD} whichever is appropriate for the logic circuit involved.

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr μA	Vf (max) @ If V	Case Style
276-1101	50	1.0	10	1.6	DO41
276-1102	200	1.0	10	1.6	DO41
276-1103	400	1.0	10	1.6	DO41
276-1104	600	1.0	10	1.6	DO41
276-1114	1000	2.5	200	1.0	A1vm
276-1122	75	.010	.25	1	A1
276-1123	60	.085	15	1	A1
276-1141	50	3.0	500	1.2	A3q
276-1142	100	3.0	500	1.2	A3q
276-1143	200	3.0	500	1.2	A3q
276-1144	400	3.0	500	1.2	A3q

ZENER DIODES—1 Watt

Catalog Number	Vz Volts ± 15% @ mA	Iz	Zz @ Iz ohms max	Case Style
276-561	6.2	41	2	A1 ay
276-562	9.1	25	7	A1 ay
276-563	12.0	21	9	A1 ay
276-564	15.0	17	14	A1 ay

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	2	M548
276-1152	100	2	M548
276-1171	100	4	M532a
276-1172	200	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a

TRANSISTORS

BIPOLAR

Catalog Number	Direct Commercial Equivalent	Mat.	Appli.	Polarity	Power Diss. @ 25°C Free Air	f_T Typical MHz	V_{CBO} V	V_{CEO} V	V_{EBO} V	I_C Max	I_B Max	h_{FE}	@V_{CE} V	@I_C mA	I_{CBO} at max V_{CB}	Case style
276-2001	2N1304	G	S	NPN	150mW	5	25	25	25	300mA		150	1	10	6μA	TO5
276-2002	2SD187	G	L.L.	NPN	200mW	—	25	—	—	150mA		150	15	30	15μA	TO1
276-2003	2SA221	G	G.P.	PNP	50mW	50	20	—	1.5	1.5 mA		75	6	1	12μA	TO44
276-2004	2SB22/ORN	G	G.P.	PNP	170mW	—	25	—	25	75mA		95	1.5	30	15μA	TO1
276-2005	2SB22/YEL	G	G.P.	PNP	150mW	—	25	—	1.5	200mA		135	1.5	30	15μA	TO1
276-2006	2SB407	G	P.	PNP	30W	0.35	30	30	10	7A		80	1.5	1A	500μA	TO3
276-2007	2N1305	G	S.	PNP	150mW	5	30	—	25	300mA		130	1	10	6μA	TO5
276-2008	SE7056	S	H.V.	NPN	1W	50	300	300	7	30mA		40	20	30	100nA	TO92+
276-2009	MPS2222A	S	G.P.	NPN	500mW	300	75	40	6	800mA		50	10	1	10nA	TO92
276-2010	PN2484	S	L.L.	NPN	360mW	15	60	60	6	50mA		250	5	1	10nA	TO92
276-2011	MPS918	S	RF/IF	NPN	200mW	600	30	15	3	50mA		20	1	3	10nA	TO92
276-2012	MPSA42	S	H.V.	NPN	800mW	30	300	300	7	150mA		35	25	30	50nA	TO92
276-2013	2N5210	S	G.P.	NPN	350mW	30	50	50	4.5	50mA		250	5	1	50nA	TO92
276-2014	MPS3704	S	G.P.	NPN	360mW	100	50	30	5	800mA		100	2	50	100nA	TO92
276-2015	TI386	S	RF/IF	NPN	250mW	600	30	20	4	50mA		40	10	2	100nA	TO92
276-2016	MPS3904	S	S.	NPN	350mW	300	60	40	6	200mA		100	10	1	50nA	TO92
276-2017	TIP31	S	P.	NPN	40W	3	40	40	5	3A	1A	10-50	4	3A	300μA	TO220
276-2018	TIP29	S	P.	NPN	40W	3	40	40	5	1A	400M	15	4	1A	300μA	TO220
276-2019	TIP33	S	P.	NPN	90W	3	40	40	5	10A	3A	20	4	3A	700μA	TO220
276-2020	TIP3055	S	P.	NPN	90W	3	100	70	7	15A	7A	20	4	4A	1mA	TO220
276-2021	MPS3640	S	RF/IF	PNP	350mW	500	12	12	4	80mA		30	0.3	10	10nA	TO92
276-2022	2N5087	S	L.L.	PNP	350mW	40	50	50	3	50mA		250	5	1	50nA	TO92
276-2023	MPS2907	S	S.	PNP	400mW	200	60	40	5	600mA		50	10	1	20nA	TO92
276-2024	MPS3702	S	G.P.	PNP	360mW	100	40	25	5	200mA		60	5	50	0.5μA	TO92
276-2025	TIP32	S	P.	PNP	40W	3	40	46	5	3A	1A	10-50	4	3A	200μA	TO220
276-2026	TIP30	S	P.	PNP	40W	3	40	40	5	1A	400M	15	4	1A	300μA	TO220
276-2027	MJE34	S	P.	PNP	90W	3	40	40	5	10A	3A	20-100	4	3A	200μA	TO220
276-2030	2N3053	S	P.	NPN	1W	100	60	40	5	700mA		50	10	150	—	TO92+
276-2031	MPS3565	S	G.P.	NPN	200mW	40	30	25	6	50mA		120	5	1	50nA	TO92
276-2032	MPS3638	S	RF/IF	PNP	600mW	100	25	25	4	500mA		30	3	10	10nA	TO92
276-2033	MPS3704	S	S.	NPN	350mW	200	60	30	5	500mA		100	10	150	50nA	TO92
276-2034	MPS3906	S	S.	PNP	350mW	250	40	40	5	200mA		100	10	1	50nA	TO92
276-2038	2N3866	S	RF.	NPN	1W	500	60	30	3.5	400mA		100	5	50	100μA	TO39
276-2039	2N6569	S	P	NPN	100W	15	45	40	5	12A	5A	100	4	1A	—	TO3
276-2040	2N6594	S	P	PNP	100W	15	45	40	5	12A	5A	100	4	1A	—	TO3
276-2041	2N3055	S	P	NPN	115W	2.5	100	60	7	15A	7A	50	4	1A	—	TO3
276-2042	2N6576	S	P	NPN	120W	—	60	60	7	15A	.25A	20,000	3	4A	—	TO3
276-2043	MJ2955	S	P	PNP	150W	4	100	60	7	15A	7A	70	10	.5	—	TO3

NOTE: All ratings given are for 25°C except where otherwise noted.

MATERIAL:
S—Silicon; G—Germanium

APPLICATION:
S—Swtich L.L.—Low Level RF—RF power
G.P.—General purpose P—Power amp/switch H.V.—High voltage

FIELD EFFECT

Catalog Number	Direct Commercial Equivalent	Circuit Application	N Channel	P Channel	Max. Power Diss. mW	Vdss V (max)	Vgss V (max)	g_{fs} mhos min/max	Case Style
276-2028	2N3821	small signal VHF mixer and AMP	X		330	50	50	1.5m/4.5m	TO92
276-2035	2N3819	small signal general purpose	X		360	25	25	2.0n/6.5m	TO92
276-2036	2N3823	RF Amp to 200 MHz	X		300	30	30	3.5m/6.5m	TO72
276-2037	2N5460	general purpose small signal		X	310		40	1.0m/4.0m	TO92

NOTE: All parameters are at 25°C.

UNIJUNCTION

Catalog Number	Direct Comm. Equivalent	Max Power Diss.	r_{BB} (max)	η (max)	V_{EB1} (sat)	V_{OB1} (min)	I_p (max)	Case Style
276-2029	MU4891	360mW	9.1K	0.82	4.0V	3.0V	5.0μA	X55

276-026 276-040 LIGHT EMITTING DIODE

GENERAL DESCRIPTION

These devices are large area light sources which contain diffusing particles in the plastic encapsulant. When the device on "ON", it appears as a large, soft light source, making it ideally suited for front panel applications.

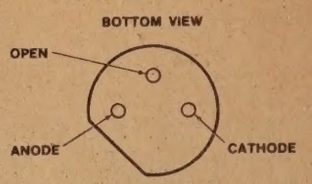
FEATURES

- The 276-040 LED (light emitting diode) is contained in a black case, giving excellent contrast when "ON".
- The 276-026 is a red LED Lamp with a frosted diffused lens.

APPLICATIONS

- Pilot lamps
- Indicator lamps
- Optical coupling

PIN CONNECTION



All Leads Electrically Isolated From Case.

RADIANT CHARACTERISTICS IF=20mA (25°C) (276-026)

Luminous Intensity	0.3 mcd
Luminous Flux	1.35 mlumen
Wavelength @ Peak	650 nM
Spectral Line Width	25 nM
Rise and Fall Time	10 ns
Angle of Half Intensity	35 degrees
Angle of 0.1 Intensity	35 degrees

ABSOLUTE MAXIMUM RATINGS

Forward DC Current	50 mA
Reverse Voltage (276-026)	3 Volts
Reverse Voltage (276-040)	4 Volts
Power Dissipation-Derate 1.3 W/°C above 25°C	100 mW
Storage Temperature	-40°C to 100°C
Operating Temperature	-40°C to 100°C
Relative Humidity @ 65°C	98%
Solder Temperature for 5 seconds	250°C @ 0.1" from Seating Plane

276-041 276-047 LIGHT EMITTING DIODE

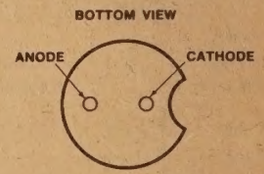
GENERAL DESCRIPTION

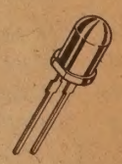
These devices are Jumbo LED's with diffused lens, IC compatable-gallium arsenide phosphide (GaAsP) solid state devices. The 276-041 is a red LED lamp.

APPLICATIONS

- Pilot lamps
- Indicator lamps
- Optical coupling

PIN CONNECTION





OPERATING SPECIFICATIONS (TA @ 25°C)

Forward Voltage	1.75 V (typ)
Light Intensity @ 20 mA	1.0 mcd (typ)
Lead Temperature (Soldering, 5 sec)	260°C

ABSOLUTE MAXIMUM RATINGS (TA @ 25°C)

Forward dc current	70 mA
Reverse voltage	3.0 V
Power dissipation	140 mW

LIGHT EMITTING DIODE 276-042

GENERAL DESCRIPTION

Subminiature, red LED lamp with a diffused lens. Emits bright light with solid state reliability; is compatible with most TTL and DTL Circuits.

APPLICATIONS

- Visual indicators
- Built in diagnostics

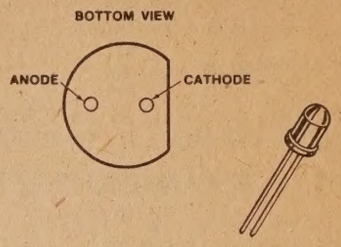
OPERATING SPECIFICATIONS

Forward Voltage ..... 1.6 V
Reverse Current ..... 0.1 µA

ABSOLUTE MAXIMUM RATINGS

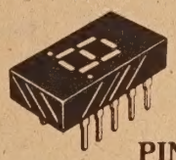
Reverse Voltage ..... 3.0 V
Forward Current ..... 40 mA

PIN CONNECTION



0.3" SOLID STATE SEVEN SEGMENT DISPLAY

276-053
276-062
276-1210
276-1211



GENERAL DESCRIPTION

The 276-053 and 276-1210 are common anode LED numeric displays. The 276-062 and 276-1211 are common cathode LED numeric displays. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.

FEATURES

- Fits 14 Pin DIP Socket
- Excellent Character Appearance - Continuous Uniform Segments; Wide Viewing Angle; High Contrast
- IC Compatible - 1.6 V per Segment
- Standard 0.3" DIP Lead Configuration; PC Board or Standard Socket Mountable
- Categorized for Luminous Intensity - Assures Uniformity of Light Output from Unit to Unit within a Single Category

APPLICATIONS

- Electronic Calculators
- TVs
- Radios
- Credit card verifiers
- Digital clocks

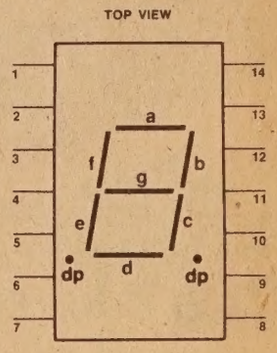
RADIANT CHARACTERISTICS (IF=20mA) TA=25°C

Luminous Intensity ..... 250 µcd
Wavelength (Peak) ..... 655 nM

ABSOLUTE MAXIMUM RATINGS

Power Dissipation T_A = 25°C ..... 400 mW
Operating Temperature Range ..... -20°C to 85°C
Storage Temperature Range ..... -20°C to 85°C
Average Forward Current/Segment or Decimal Pt. T_A = 25°C ..... 25 mA
Peak Forward Current/Segment or Decimal Pt. T_A = 25°C (Pulse Duration 500 us) ..... 150 mA
Reverse Voltage/Segment or Decimal Pt. ..... 6 V
Max. Solder Temperature 1/16" Below Seating Plant (t≤5 sec.) ..... 230°C

PIN CONNECTION



276-053 and 276-1210 COMMON ANODE

PIN	FUNCTION
1	CATHODE a
2	CATHODE f
3	ANODE
4	NO PIN
5	NO PIN
6	CATHODE dp
7	CATHODE e
8	CATHODE d
9	NO CONNECTION
10	CATHODE c
11	CATHODE g
12	NO PIN
13	CATHODE b
14	ANODE

276-062 and 276-1211 COMMON CATHODE

PIN	FUNCTION
1	ANODE a
2	ANODE f
3	CATHODE
4	NO PIN
5	NO PIN
6	ANODE dp
7	ANODE e
8	ANODE d
9	NO CONNECTION
10	ANODE c
11	ANODE g
12	NO PIN
13	ANODE b
14	CATHODE

ALTERNATE CONNECTION

PIN	FUNCTION
1	NO PIN
2	ANODE
3	CATHODE-f
4	CATHODE-g
5	CATHODE-e
6	CATHODE-d
7	NO PIN
8	NO PIN
9	ANODE
10	CATHODE-dp
11	CATHODE-c
12	CATHODE-b
13	CATHODE-a
14	NO PIN

ALTERNATE CONNECTION

PIN	FUNCTION
1	NO PIN
2	CATHODE
3	ANODE-f
4	ANODE-g
5	ANODE-e
6	ANODE-d
7	NO PIN
8	NO PIN
9	CATHODE
10	ANODE-dp
11	ANODE-c
12	ANODE-b
13	ANODE-a
14	NO PIN

276-056 276-066 0.6" SEVEN SEGMENT NUMERIC DISPLAY

GENERAL DESCRIPTION

These devices are single digit numeric displays. They are compatible with bipolar and MOS IC's. They provide fast switching - excellent for multiplexing - and the 0.6 inch character height provides a viewing distance up to 25 feet. The 276-056 is common anode. The 276-066 is common cathode.

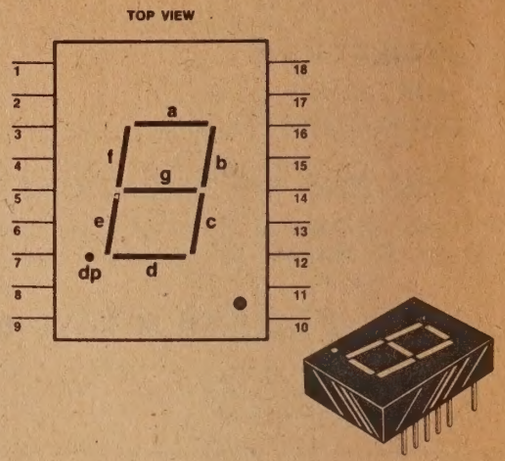
APPLICATIONS

- Digital clocks
- Elevator floor indicators
- Panel meters
- Calculators
- TV channel indicators

ABSOLUTE MAXIMUM RATINGS

Power Dissipation T_A = 25°C 960mW
Power Derate Factor from 25°C ..... -6.6 mW/°C
Storage and Operating Temperature ..... 0°C to 85°C
DC Current/Segment or DP, T_A = 25°C ..... 30 mA
Average Current/Segment or DP, T_A = 25°C ..... 25 mA
Peak Current/Segment or DP, T_A = 25°C ..... 250 mA
Reverse Voltage/Segment ..... 6.0 V
Solder Temperature 1/16" below Seating Plane, t≤5 seconds ..... 240°C

PIN CONNECTION



276-056

PIN	FUNCTION
1	NO PIN
2	CATHODE - a
3	CATHODE - f
4	ANODE*
5	CATHODE - e
6	ANODE*
7	CATHODE - dp
8	NO PIN
9	NO PIN
10	NO PIN
11	CATHODE - d
12	ANODE*
13	CATHODE - c
14	CATHODE - g
15	CATHODE - b
16	NO PIN
17	ANODE*
18	NO PIN

*Common redundant anodes

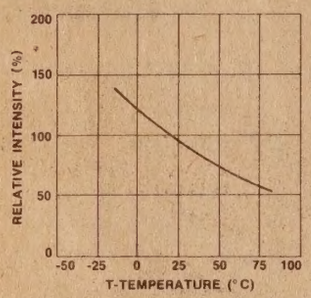
276-066

PIN	FUNCTION
1	NO PIN
2	ANODE - a
3	ANODE - f
4	CATHODE*
5	ANODE - e
6	CATHODE*
7	ANODE - dp
8	NO PIN
9	NO PIN
10	NO PIN
11	ANODE - d
12	CATHODE*
13	ANODE - c
14	ANODE - g
15	ANODE - b
16	NO PIN
17	CATHODE*
18	NO PIN

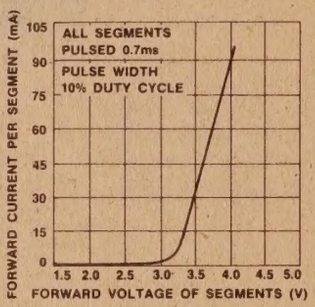
*Common redundant cathodes.

TYPICAL CHARACTERISTICS

Light Intensity vs Ambient Temperature



Forward Current vs Forward Voltage

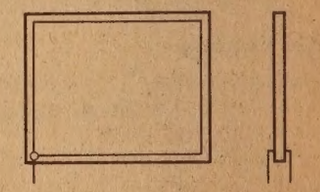


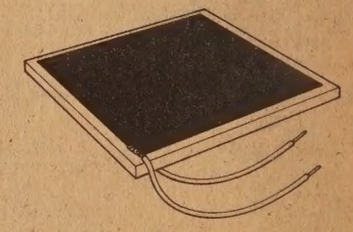
276-115 SELENIUM SOLAR CELL

GENERAL DESCRIPTION

The selenium solar cell is a device that can change the energy of the sun into electrical energy for use in your electronic projects. It can be used in place of the battery or it can be used as a light sensor. It produces .5 V at .6 ma in strong sunlight which is enough to power small radios and oscillator circuits. The unit is sensitive to the same range of light as the human eye.

CONNECTION





FEATURES

- Dimensions ..... 1-1/2" x 1-1/8"
- Sensitive Area ..... 1.875 in.
- Lead Type ..... Flexible wire
- Weight ..... 1.5 gms.

PHOTOELECTRIC CHARACTERISTICS

Max. Voltage Output ..... .5 V
Max. Current Output ..... .6 ma
Output at 100 Lux (3K load) ..... 50 µA
Output at 500 Lux (3K load) ..... 90 µA
Peak Spectral Response ..... 5,500 Angstroms

CADMIUM SULPHIDE PHOTOCELL 276-116

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms, max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

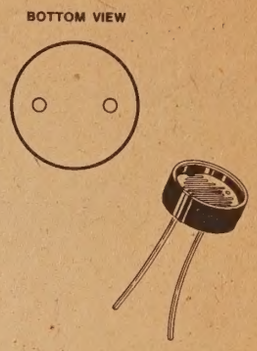
FEATURES

- Shape ..... Round
- Sensitive Area ..... .07 sq. in.
- Weight ..... 1.56 gms.
- Resistance at 1 Ftc (2870°K) ..... 1.7k Ohms . 40%
- Typical Resistance 100 Ftc (2870°K) ..... 100 Ohms
- Resistance Dark Minimum (1 Minute) ..... 0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc) ..... 170 V peak
Max. Power dissipation at 25°C ..... 2 watts
Power derating ..... Linearly to 0 @ 75°C
Operating Temp. range ..... -40°C to 75°C

PIN CONNECTION



SILICON SOLAR CELL 276-120 276-128

GENERAL DESCRIPTION

The silicon solar cell is a device that can change the energy of the sun into electrical energy for use in your electronic projects. It can be used in place of a battery, or it can be used as a light sensor.

APPLICATIONS

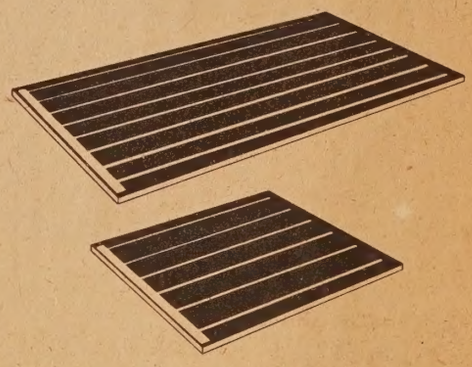
- Solar-powered battery charger
- Power Radio Circuits
- Use several in series or parallel for added power.

FEATURES

- Dimensions (276-120) ..... 2cm x 4cm
- Dimensions (276-128) ..... 2cm x 2cm

PHOTOELECTRIC CHARACTERISTICS

Max Voltage output 0.5V
Max Current output (276-120) 100mA
Max Current output (276-128) 60mA



SILICON PHOTOTRANSISTOR 276-130

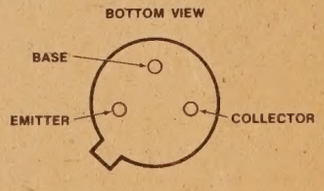
GENERAL DESCRIPTION

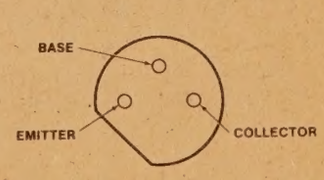
The 3 terminal phototransistor has exceptionally stable characterist'cs and high illumination sensitivity. The electrically connected base lead increases its applicability to various circuit designs. It features low leakage, low power, requirements, TTL/DTL compatibility, a large range of sensitivities and minimal response time.

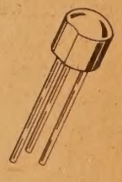
ABSOLUTE MAXIMUM RATINGS

Maximum Temperatures/Humidity
Storage Temperature ..... -55°C to 100°C
Operating Junction Temperature ..... -55°C to 85°C
Relative Humidity at Temperature ..... 98% at 65°C
Maximum Power Dissipation
Total Dissipation at 25°C Case Temperature ..... 200 mW
at 25°C Ambient Temperature ..... 100 mW
Maximum Voltages
V_{CBO} Collector to Base Voltage ..... 50 Volts
V_{CEO} Collector to Emitter Sustaining Voltage ..... 30 Volts
Maximum Current
I_C Collector Current ..... 25 mA

PIN CONNECTION







The base lead is for testing only, it is not used in normal applications.

276-1095 1.6 AMP LIGHT ACTIVATED SILICON CONTROLLED RECTIFIER (LASCR)

GENERAL DESCRIPTION

The Light Activated Silicon Rectifier (LASCR) is sensitive to both visible and invisible light; light sensitivity up to 200 ft. candles.

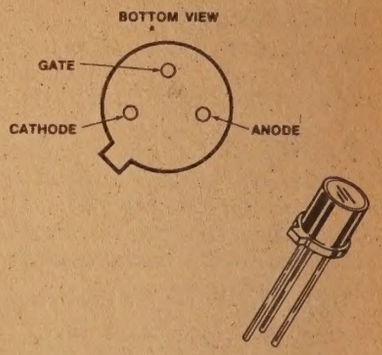
APPLICATIONS

- On time Switch • Optical switch • Counting Circuits • Delay Circuits
- Phase Control

ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage.....200 V
Maximum End Current .....1.6 amps
Light Sensitivity .....200 Ft. Candles
Gate Firing Current .....30 µA

PIN CONNECTION

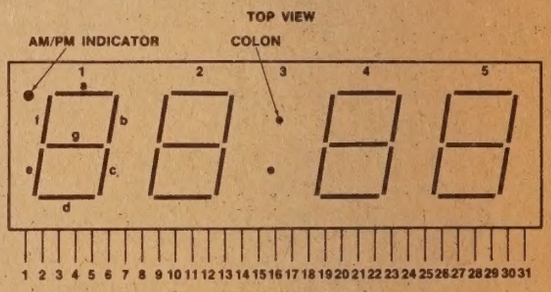


276-1201 276-1202 CLOCK DISPLAY BOARD 4-.5" Digits with Colon

GENERAL DESCRIPTION

These devices 276-1201, 276-1202 are a 24 hour clock display with colon located between digits 2 and 3. This is a direct drive display consisting of 4 digits, for hours and minutes, separated by a colon. It also has AM/PM indicator in the upper left hand corner.

PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

ELECTRICAL DATA
Segment Light Intensity.....100 - .250 mcd (min - typ)
Segment Forward Voltage .....1.7 - 2.0 V (typ max)
Reverse Voltage.....3.0 - 8.0 V (min - typ)
Intensity Matching .....± 33% (min)
Current per segm ..... 20 mA (max)
Peak wave length.....660 nm (typical)

PIN FUNCTION

276-1201

Pin No	Electrical Connection	Pin No	Electrical Connection
1	AM/PM Indicator Cathode	17	Cathode F Digit 4
2	Cathode F Digit 1	18	E
3	E	19	D
4	D	20	C
5	C	21	G
6	G	22	B
7	B	23	A 4
8	A 1	24	F 5
9	F 2	25	E
10	E	26	D
11	D	27	C
12	C	28	G
13	G	29	B
14	B	30	Cathode A Digit 5
15	Cathode A Digit 2	31	Common Anode
16	Cathode Colon Digit 3		

276-1202

Pin No	Electrical Connection	Pin No	Electrical Connection
1	AM/PM Indicator Anode	17	Anode F Digit 4
2	Anode F Digit 1	18	E
3	E	19	D
4	D	20	C
5	C	21	G
6	G	22	B
7	B	23	A 4
8	A 1	24	F 5
9	F 2	25	E
10	E	26	D
11	D	27	C
12	C	28	G
13	G	29	B
14	B	30	Anode A Digit 5
15	Anode A Digit 2	31	Common Cathode
16	Anode Colon Digit 3		

LED DISPLAY DIGITAL ELECTRONIC CLOCK MODULE

277-1001

GENERAL DESCRIPTION

Electronic Clock Module combines a monolithic MOS-LSI integrated clock circuit, 4-digit 0.5" LED display, power supply and other associated discrete components on a single printed circuit board to form a complete electronic clock movement. The user need add only a transformer and switches to construct a pretested digital clock for application in clock-radios, alarm or instrument panel clocks. Timekeeping may be from 50 or 60 Hz inputs. Direct (non-multiplexed) LED drive eliminates Rf interference. Time setting is made easy through use of "Fast" and "Slow" scanning controls.

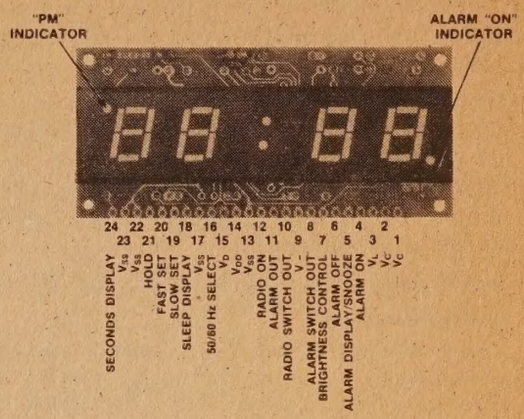
FEATURES

- Bright 4-digit 0.5" LED display
- Complete—add only transformer and switches
- Alarm clock and clock-radio versions
- 12 hour display format
- 50 or 60 Hz operation
- Power failure indication
- Brightness control capability
- "Sleep" and "snooze" timers
- Alarm "on" and PM indicators
- Direct drive—no RFI
- Fast and slow set controls
- Low cost, compact design

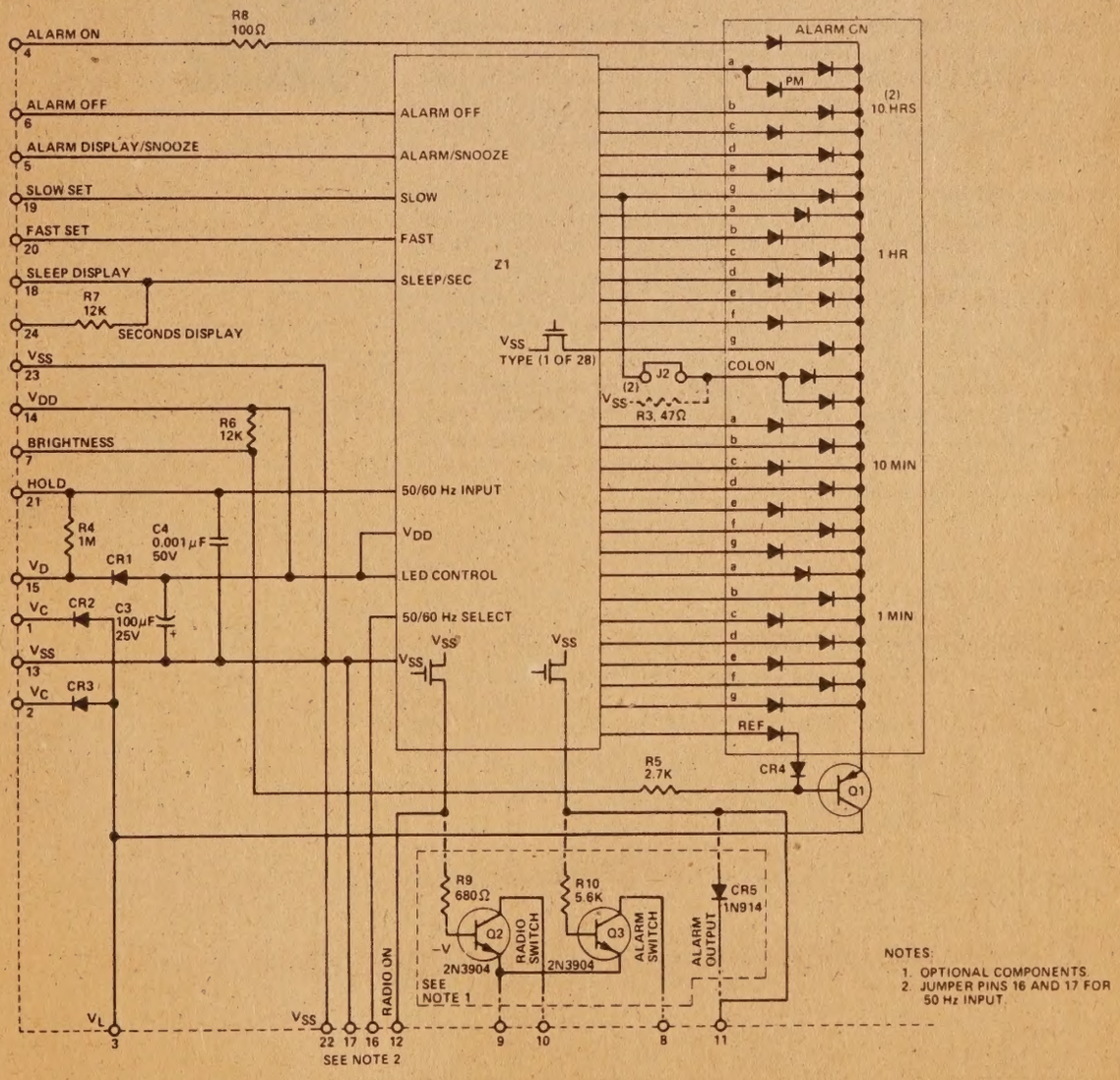
APPLICATIONS

- Clock-radio timers
- Instrument panel clocks
- Alarm clocks
- Desk clocks
- TV-stereo timers

PIN CONNECTION



SCHEMATIC DIAGRAM



FUNCTIONAL DESCRIPTION

Display Modes

The 277-1001 provides four basic selectable display modes: These are summarized in Table I.

Colon: The display is furnished with a colon which flashes at a 1 Hz rate. If a fixed colon is desired, remove J2 and install R3 (47Ω) shown in component location diagram.

Alarm "ON" Indicator: Setting the alarm switch to "on" lights a dot in the lower right hand corner of the display.

AM/PM Indicator: PM time indication is given by a dot in the upper left hand corner of the display. Indication applies for both time and alarm display modes.

Power Failure Indication: Power failure is indicated by the entire display flashing at 1 Hz rate. Contact to either the FAST or SLOW time set control cancels this indication.

Zero Blanking: Zeroes appearing in the first digit are blanked.

Control Functions

Setting of Time, Alarm Time, Seconds and Sleep Timer registers is accomplished by selecting the appropriate display mode and simultaneously contacting one or both of the FAST and SLOW time setting switches. This is summarized in Table II.

Alarm On/Off Switch: The Alarm On/Off switch is an SPDT switch—the "ON" position lights the alarm set indicator; the "OFF" position disables the alarm output latch and silences the alarm. The alarm output will continue for 59 minutes unless cancelled by the Alarm On/Off switch or inhibited by the Alarm Display/Snooze button.

Alarm Display/Snooze Button: This momentary switch has four functions: displays the alarm time; enables setting of alarm time (in conjunction with fast or slow-set switches); cancels the Sleep (Radio) output and inhibits the alarm output for a period of between 8 and 9 minutes (Snooze function). The Snooze alarm feature may be used repeatedly during the 59 minute alarm enable period.

Sleep Display/Timer Button: A momentary contact displays the time remaining in the sleep register and enables programming the desired sleep time by simultaneously using the Fast or Slow buttons, as shown in Table II. The Sleep (Radio) output is latched on for the interval programmed, which may be up to 59 minutes. The Sleep output may be cancelled by momentarily contacting the Alarm Display/Snooze button. Resetting the time-of-day will decrement the Sleep Timer, which will not recycle past 00.

Brightness Control: A fixed 12K brightness control resistor is installed for minimum display brightness for night viewing. Maximum display brightness is obtained by placing a short between pins 7 and 14. This can be accomplished by addition of an external SPST switch or the insertion of a 10KΩ Pot for variable control of brightness.

Options

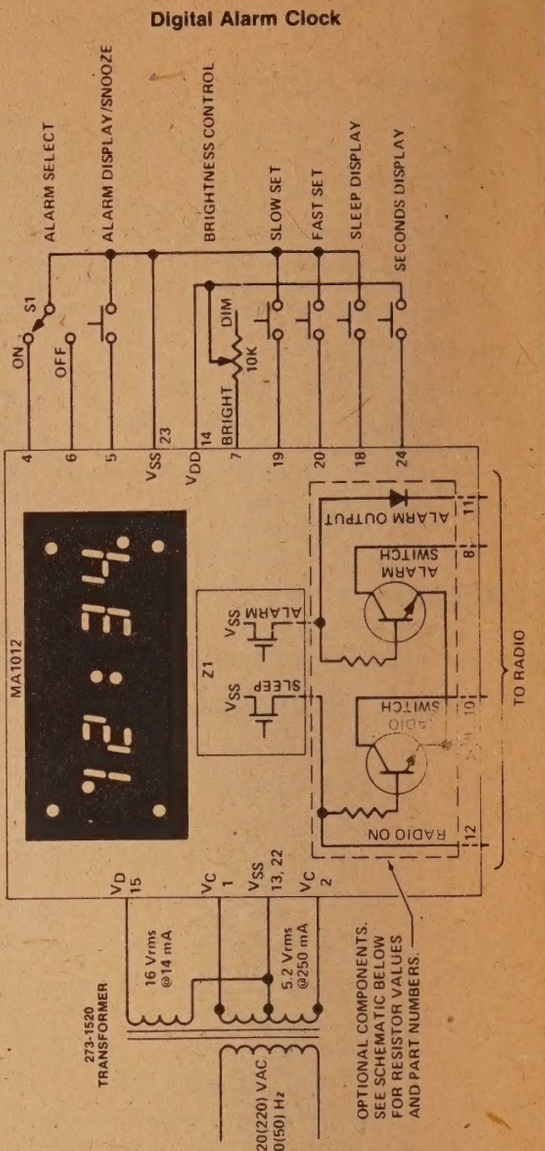
Sleep (Radio). If a radio or appliance turn on switch is desired, resistor R9 (680 Ω) and transistor Q2 can be mounted as shown on component location diagram.

Alarm: If a radio alarm is desired, resistor R10 (5.6K), transistor Q3, and diode CR5 can be mounted as shown on the component location diagram.

NOTE

Certain outputs of the 277-1001 module are directly connected to MOS device inputs. Normal precautions taken for handling of MOS devices should be applied to the handling of this module. .

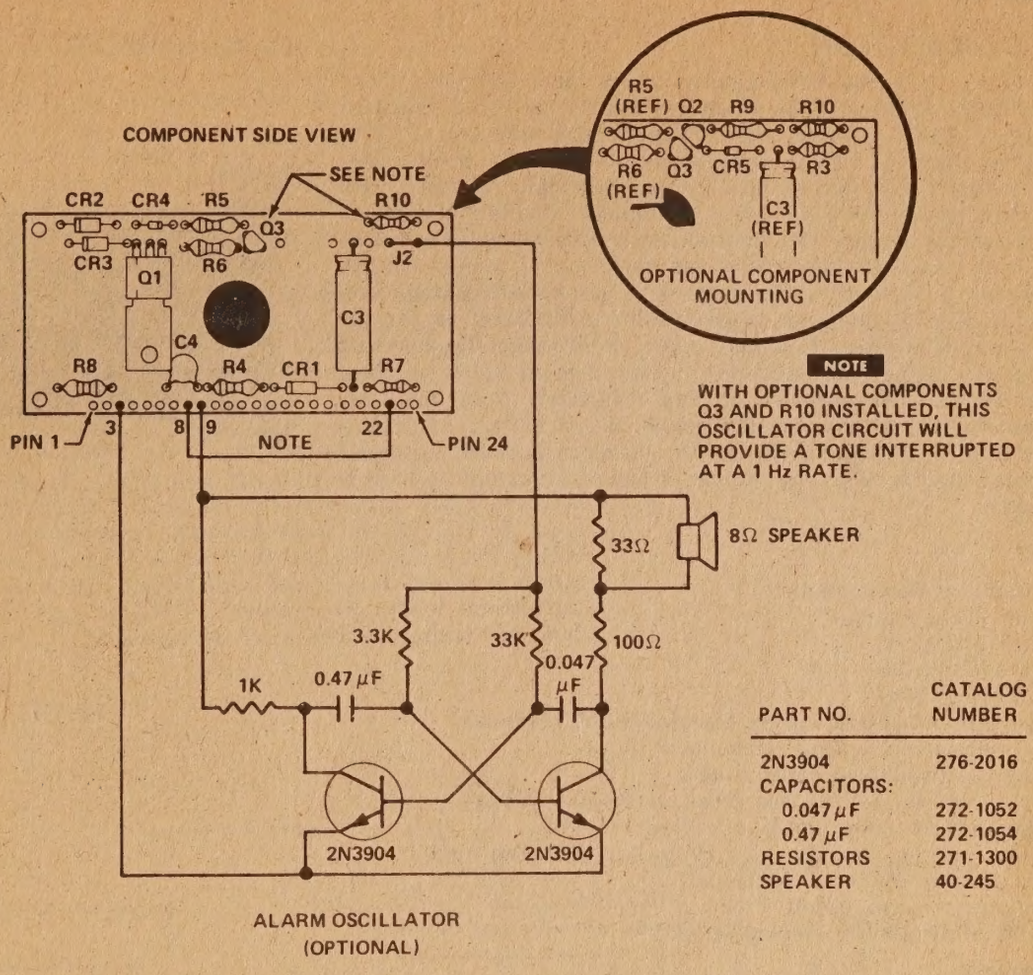
TYPICAL APPLICATION



ABSOLUTE MAXIMUM RATINGS

Voltage—Pins 15 to 13	20 Vrms
Voltage—Pins 1, 2 to 13	7.0 Vrms
Voltage—Pins 9 to 13	+0.3 to -26 V_{DC}
Voltage—Pins 8, 10 to 9	30 V_{DC}
Operating Temperature Range	-25° to +60°
Storage Temperature Range	-65°C to +85°C
Lead Temperature (Soldering, 10 seconds)	300°C

COMPONENT LOCATION



PART NO.	CATALOG NUMBER
2N3904	276-2016
CAPACITORS:	
0.047 μF	272-1052
0.47 μF	272-1054
RESISTORS	271-1300
SPEAKER	40-245

TABLE I. DISPLAY MODES

*SELECTED DISPLAY MODE	DIGIT NO. 1	DIGIT NO. 2	DIGIT NO. 3	DIGIT NO. 4
Time Display	10's of Hours & AM/PM	Hours	10's of Minutes	Minutes
Seconds Display	Blanked	Minutes	10's of Seconds	Seconds
Alarm Display	10's of Hours & AM/PM	Hours	10's of Minutes	Minutes
Sleep Display	Blanked	Blanked	10's of Minutes	Minutes

*If more than one display mode input is applied, the display priorities are in the order of Sleep (overrides all others). Alarm, Seconds, Time (no other mode selected).

TABLE II. CONTROL FUNCTIONS

SELECTED DISPLAY MODE	CONTROL INPUT	CONTROL FUNCTION
*Time	Slow	Minutes Advance at 2 Hz Rate
	Fast	Minutes Advance at 60 Hz Rate
	Both	Minutes Advance at 60 Hz Rate
Alarm/Snooze	Slow	Alarm Minutes Advance at 2 Hz Rate
	Fast	Alarm Minutes Advance at 60 Hz Rate
	Both	Alarm Resets to 12:00 AM
Seconds	Slow	Input to Entire Time Counter is Inhibited (Hold)
	Fast	Seconds and 10's of Seconds Reset to Zero Without a Carry to Minutes
	Both	Time Resets to 12:00 AM
Sleep	Slow	Subtracts Count at 2 Hz
	Fast	Subtracts Count at 60 Hz
	Both	Subtracts Count at 60 Hz

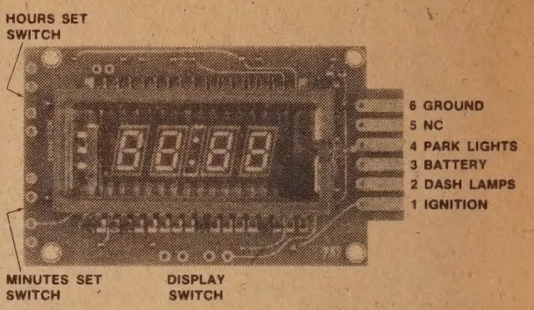
*When setting time sleep minutes will decrement at rate of time counter, until the sleep counter reaches 00 minutes (sleep counter will not recycle).

277-1003 12 VDC AUTOMOTIVE/INSTRUMENT CLOCK MODULE

GENERAL DESCRIPTION

The MA-1003 $12V_{DC}$ Automotive/Instrument Clock Module combines the MM5377 monolithic MOS/LSI clock circuit, a 4-digit 0.3" green vacuum fluorescent display, a 2.097 MHz crystal and supporting components to form a complete digital clock for $12V_{DC}$ applications. The module is fully protected against automotive transients and battery reversal conditions with time-keeping maintained down to $9V_{DC}$. Automatic display brightness control logic blanks the display with ignition off, reduces brightness to 33% with park or head lamps on and follows the dash lamp dimming control setting. The display features leading zero blanking and has a blinking colon activity indicator. The bright green display color is filterable to various shades in the green, blue-green, blue and yellow color range. Time setting is accomplished by closing hours-advance and minutes-advance switches; these switches are disabled when the display is blanked to prevent tampering. Interconnections are simplified through use of a 6-pin edge connector. Display may be activated with ignition off or park (head) lights off by closing display switch, allowing minimum power consumption in portable applications.

PIN CONNECTION



FEATURES

- Ideal for automotive applications
- Operates from $12V_{DC}$ supply
- Bright 0.3" green display
- Internal crystal timebase
- ±0.5 second/day accuracy
- Protected against automotive voltage transients and reversals
- Timekeeping maintained to $9V_{DC}$, memory to $6V_{DC}$
- Automatic display brightness control logic
- Display color filterable to blue, blue-green, green and yellow
- Complete—just add switches and lens
- Convenient time setting controls at a 1 Hz rate with no roll-over
- Compact size, built-in connector (optional)
- Low standby power consumption
- Lockout of time setting when display is "OFF"

APPLICATIONS

- In-dash autoclocks
- After-market auto/recreational vehicle clocks
- Aircraft-marine clocks
- $12V_{DC}$ operated instruments
- Portable/battery powered instruments

FUNCTIONAL DESCRIPTION

DISPLAY FUNCTIONS

Brightness Control: The 277-1003 provides four basic selectable display brightness modes. These are summarized in table I. Note that 33% and 0% brightnesses are boundary values only. Any brightness in between is obtainable by simply varying the dash lamp input (pin 2) voltage between V_{BAT} (pin 3) and GND (pin 6). Note the difference between "display blanked" and "0% brightness."

Colon: The 277-1003 is furnished with a colon display which flashes at a 0.5 Hz rate (one second "ON," one second "OFF"). When setting minutes, the colon blinks at a 1 Hz rate.

Zero Blanking: Zeros appearing in the first (tens hours) digit are blanked automatically.

CONTROL FUNCTIONS

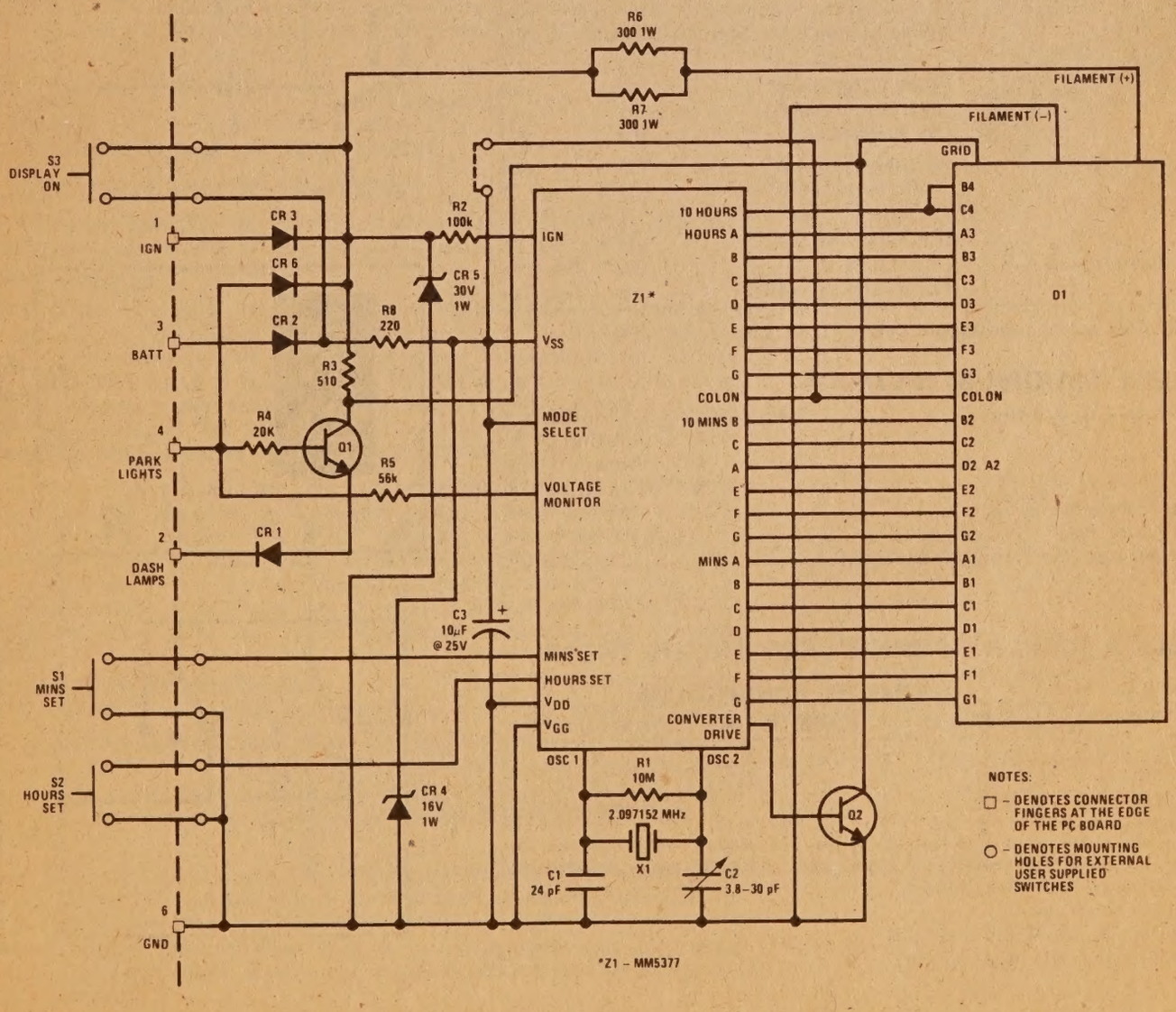
Control Inputs: Inputs including battery, ignition, park lights, dash lamps and a respective ground are routed to the edge connector tab for easy connection/disconnection. The remaining inputs including hours set, minutes set and display "ON" are available at terminals near the edge of the PC board for facilitating "on board" switch contacts or external switches (user supplied). See Pin Connection diagram.

Battery Input (Pin 3): This input powers the MOS clock circuit only and insures timekeeping above $9V_{DC}$. The input is protected against battery reversals, excessive current and transient overvoltages.

Ignition Input (Pin 1): This input enables setting of the clock using the hours and minutes set inputs, enables the display to display time of day information and enables the display to be dimmed by the use of the park and dash inputs. Again, this input is similarly protected. When this input is at a voltage equal to V_{BAT} (pin 3), the time set, display and dimming are enabled. When the input is at GND (pin 6), the time set, display and dimming are disabled. Nominal voltage levels on this input are V_{BAT} and GND; however, the actual threshold is approximately 50% of V_{BAT}. The display begins to turn on with minimal brightness at this threshold and increases to maximum brightness as the input voltage approaches V_{BAT}. This input does not affect the accuracy of the timekeeping logic in any manner. When left open, the input is internally pulled to GND (see table I).

Park Lights Input (Pin 4): This input enables the display and the dimming of the display. If the input is at a voltage equal to V_{BAT} (pin 3), the display is enabled at a brightness of 0-33%, depending upon the dash lamp input (pin 2) voltage level. During this condition, the state of the ignition input (pin 1) does not affect the brightness of the display in any manner. When the input is at GND (pin 6), the dimming of the display is disabled and the display is either blanked or at 100% brightness, depending upon the ignition input voltage level. During this condition, the state of the dash lamp input does not affect the brightness of the display in any manner. When left open, the state of the input is dependent upon the state of the ignition input. When ignition is high (V_{BAT}), park is internally pulled high; when ignition is low (GND), park is internally pulled low. See table I. Nominal voltage levels on this input are V_{BAT} or GND. However, the actual threshold is is approximately 50% of V_{BAT}. This input is also protected against transients and reversals.

SCHEMATIC DIAGRAM



Dash Lamps Input (Pin 2): This input controls the display brightness only when the park lights input (pin 4) is active (V_{BAT}). When this input is high, or at V_{BAT}, the relative brightness of the display is 33%. When this input is low, or at GND, the relative brightness is 0%. As the input voltage is varied from GND to V_{BAT}, the brightness varies linearly from 0% to 33%. When the park lights input is not applied, or low, this input does not affect the display brightness in any manner. When left unconnected, the input is internally pulled high (see table I). Like all other edge connector control inputs, this input is similarly protected.

Hours and Minutes Set Inputs: These inputs are used to preset time. Hours set will advance the hours at a 1 Hz rate when the input is held at GND. While setting hours, the minutes counter may also advance the hours count. Minutes set will advance the minutes at a 1 Hz rate, hold the internal seconds counter reset to 00 and cause the colon to blink at a 1 Hz rate when the input is held at GND. When left unconnected, both inputs are internally pulled high, or to V_{BAT}. Unlike the edge connector control inputs, these inputs are unprotected, and normal precautions taken for handling of MOS devices should be applied to the handling of this module. Both inputs include two PC board terminals located near the edge of the module which can accept SPST switches (see Pin Connection diagram).

Display "ON" Switch Input: This input provides a means for displaying time at 100% brightness when both the ignition and park lights inputs (pins 1 and 4) are low or at GND. The input includes two PC board terminals located near the edge of the module which can accept an SPST switch (see Pin Connection diagram).

ELECTRICAL CHARACTERISTICS $T_A = 25°C, V_{BAT} = 14V_{DC}$, display at 10:08 unless otherwise specified.

Power Supply Voltage (V_{BAT})	Timekeeping Maintained	9 thru 14	V_{DC}
	Time Memory Maintained	6 thru 14	V_{DC}
Power Supply Current (I_{BAT})	Display Blanked*	2	mA
	100% Brightness*	83	mA
	33% Brightness*	97	mA
	0% Brightness*	104	mA
Power Consumption	Display Blanked*	25	mW
	100% Brightness*	1.2	W
	33% Brightness*	1.4	W
	0% Brightness*	1.5	W
Timing Accuracy	T_A = 25°C	±0.5	Sec/Day
	T_A = -25°C to +65°C	±2	Sec/Day

*See table 1 for corresponding pin connections (pins 1, 2 and 4).

ABSOLUTE MAXIMUM RATINGS

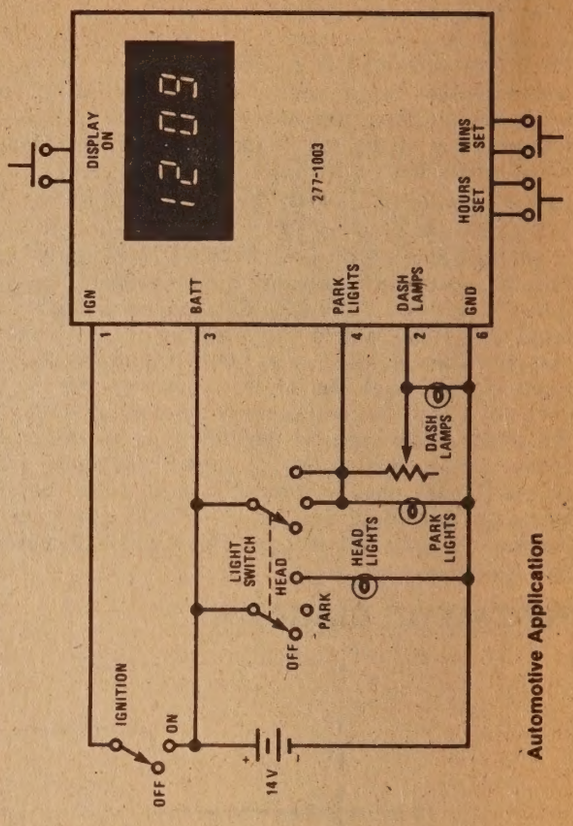
Voltage—Pins 1, 2, 3, 4 to 6.....$-24V_{DC}$ to $+24V_{DC}$ (Continuous)
40 V_P, Duration 50 ms
80V_P, Duration 5 ms
-200 V_P, Duration 1 ms
Operating Temperature..... -40°C to +85°C
Storage Temperature..... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) .....300°C

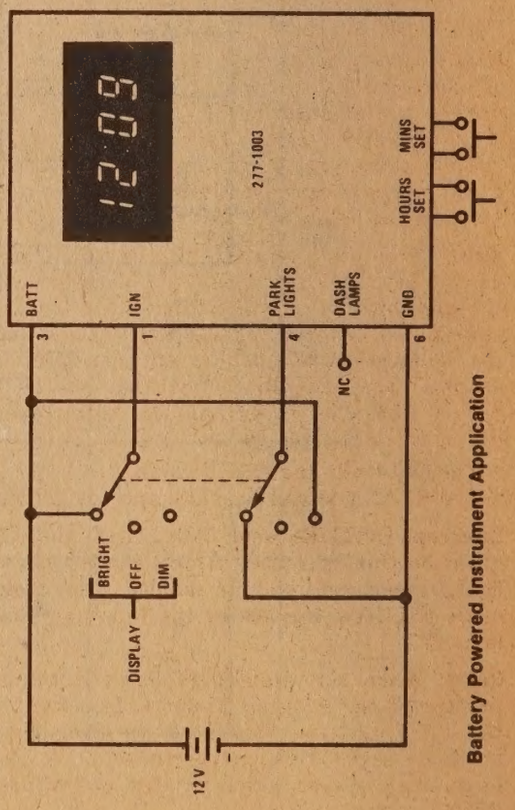
TABLE I: DISPLAY BRIGHTNESS TRUTH TABLE

DISPLAY BRIGHTNESS	INPUT PIN CONNECTIONS		
	IGN (Pin 1)	PARK (Pin 4)	DASH (Pin 2)
Display Blanked	L or Open*	L or Open*	X
100% Brightness	H	L	X
33% Brightness	X	H	H or Open*
0% Brightness	X	H	L

* —User may leave this particular input pin unconnected to achieve the same effect as logic level shown.
X—Don't care condition.
H—Connection to BATT input (pin 3).
L—Connection to GND input (pin 6).

TYPICAL APPLICATIONS





8-BIT N-CHANNEL MICROPROCESSOR

8080
276-2510

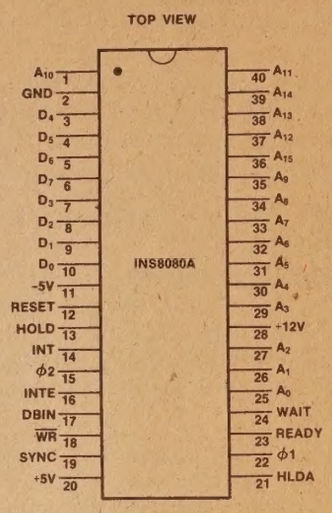
GENERAL DESCRIPTION

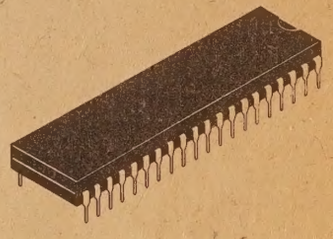
The INS8080A is an 8-bit microprocessor housed in a standard, 40-pin dual-in-line package. The chip, which is fabricated using N-channel silicon gate MOS technology, functions as the central processing unit (CPU) in National Semiconductor's N8080 microcomputer family.

The INS8080A has a 16-bit address bus that is capable of addressing up to 65k bytes of memory and up to 256 input and 256 output devices. Data is routed to and from the INS8080A on a separate bidirectional 8-bit bus. This data bus is also TRI-STATE®, making direct memory addressing (DMA) and multiprocessing applications possible. The INS8080A directly provides signals to control the interface to memory and I/O ports. All buses, including control, are TTL compatible.

An asynchronous interrupt capability is included in the INS8080A to allow external signals to change the instruction sequence. The interrupting device may vector the program to a particular service routine location (or some other direct function) by specifying an interrupt instruction to be executed.

PIN CONNECTION





FEATURES

- 2μs Instruction Cycle
- Variable Length Instructions
- General Purpose Registers—Six plus an Accumulator
- Direct Addressing up to 65k Bytes
- Variable Length Stack Accessed by 16-bit Stack Pointer
- Addresses 256 Input and 256 Output Ports
- Provisions for Vectored Interrupts
- TRI-STATE® Bus for DMA and Multiprocessing Capability
- TRI-STATE TTL Drive Capabilities for Address and Data Buses
- Decimal Arithmetic Capability
- Multiple Addressing Modes
  —Direct —Register Indirect
  —Register —Immediate
- Direct Plug-in Replacement for Intel 8080A

FUNCTIONAL PIN DEFINITION

The following describes the function of all of the INS8080A input/output pins. Some of these descriptions reference internal timing periods.

INPUT SIGNALS

Ready: When high (logic 1), indicates that valid memory or input data are available to the CPU on the INS8080A data bus. The READY signal is used to synchronize the CPU with slower memory or input/output devices. If the INS8080A does not receive a high READY input after sending out an address to memory or an input/output device, the INS8080A enters a WAIT mode for as long as the READY input remains low (logic 0). The CPU may also be single stepped by the use of the READY signal.

Hold: When high, requests that the CPU enter the HOLD mode. When the CPU is in the HOLD mode, the CPU address and data buses both will be in the high-impedance state. The HOLD mode allows an external device to gain control of the INS8080A address and data buses immediately following the completion of the current machine cycle by the CPU. The CPU acknowledges the HOLD mode via the HOLD ACKNOWLEDGE (HLDA) output line. The HOLD request is recognized under the following conditions:

- The CPU is in the HALT mode.
- The READY signal is active and the CPU is in the t_2 or the t_W state.

Interrupt (INT) Request: When high, the CPU recognizes an interrupt request on this line after completing the current instruction or while in the HALT mode. An interrupt request is not honored if the CPU is in the HOLD mode (HLDA = logic 1) or the Interrupt Enable Flip-flop is reset (INTE = logic 0).

Reset: When activated (high) for a minimum of three clock periods, the content of the Program Counter is cleared and the Interrupt Enable and Hold Acknowledge Flip-flops are reset. Following a RESET, program execution starts at memory location 0. It should be noted that the status flags, accumulator, stack pointer, and registers are not cleared during the RESET sequence.

Note: For additional information about the 8080A, refer to Radio Shack's book 62-2014.

Ø1 and Ø2 Clocks: Two non-TTL compatible clock phases which provide nonoverlapping timing references for internal storage elements and logic circuits of the CPU.

+12 Volts: V_{DD} Supply. **+5 Volts:** V_{CC} Supply.
Ground: V_{SS} (0 volt) reference. **-5 Volts:** V_{BB} Supply.

OUTPUT SIGNALS

Synchronizing (SYNC) Signal: When activated (high), the beginning of a new machine cycle is indicated and the status word is outputted on the Data Bus.

Address (A_{15} - A_0) Bus: This bus comprises sixteen TRI-STATE outputlines. The bus provides the address to memory (up to 65k bytes) or denotes the input/output device number for up to 256 input and 256 output peripherals.

Wait: When high, acknowledges that the CPU is in the WAIT mode.

Write (WR): When low, the data on the data bus are stable for WRITE memory or output operation.

Hold Acknowledge (HLDA): Goes high in response to a logic 1 on the HOLD line and indicates that the data and address bus will go to the high-impedance state. The HLDA begins at one of the following times:

- The t_3 state of a READ memory input operation.
- The clock period following the t_3 state of a WRITE memory output operation.

In both cases, the HLDA signal starts after the rising edge of the Ø1 clock, and high impedance occurs after the rising edge of the Ø2 clock.

Interrupt Enable (INTE): Indicates the content of the internal Interrupt Enable Flip-flop. The Enable and Disable Interrupt (EI and DI) Instructions cause the Interrupt Enable Flip-flop to be set and reset, respectively. When the flip-flop is reset (INTE) = logic 0), it inhibits interrupts from being accepted by the CPU. In addition, the Interrupt Enable Flip-flop is automatically reset (thereby disabling further interrupts) at the t_1 state of the instruction fetch cycle, when an interrupt is accepted; it is also reset by the RESET Signal.

Data Bus In (DBIN): When high, indicates to external circuits that the data bus is in the input mode. The DBIN Signal should be used to gate data from memory or an I/O device onto the Data Bus.

INPUT/OUTPUT SIGNALS

Data (D_7 - D_0) Bus: This bus comprises eight TRI-STATE input/output lines. The bus provides bidirectional communication between the CPU, memory, and input/output devices for instructions and data transfers. A status word (which describes the current machine cycle) is also outputted on the data bus during the first state of each machine cycle (SYNC = logic 1).

8080A STATUS

Instructions for the 8080A require from one to five machine cycles for complete execution. The 8080A sends out 8 bits of status information on the data bus at the beginning of each machine cycle (during SYNC time). The following table defines the status information.

STATUS INFORMATION DEFINITION

Symbols	Data Bus Bit	Definition
INTA*	D_0	Acknowledge signal for INTERRUPT request Signal should be used to gate a restart instruction onto the data bus when DBIN is active.
WO	D_1	Indicates that the operation in the current machine cycle will be a WRITE memory or OUTPUT function (WO = 0). Otherwise, a READ memory or INPUT operation will be executed.
STACK	D_2	Indicates that the address bus holds the pushdown stack address from the Stack Pointer.
HLTA	D_3	Acknowledge signal for HALT Instruction.

Symbols	Data Bus Bit	Definition
OUT	D_4	Indicates that the address bus contains the address of an output device and the data bus will contain the output data when WR is active.
M_1	D_5	Provides a signal to indicate that the CPU is in the fetch cycle for the first byte of an instruction.
INP*	D_6	Indicates that the address bus contains the address of an input device and the input data should be placed on the data bus when DBIN is active.
MEMR*	D_7	Designates that the data bus will be used for memory read data.

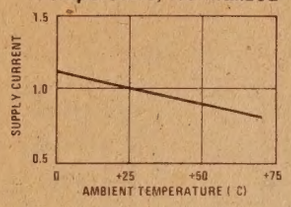
*These three status bits can be used to control the flow of data onto the INS8080A data bus.

CAPACITANCE

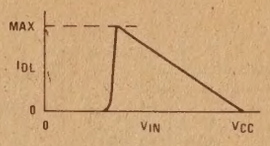
$T_A = 25°C$, $V_{CC} = V_{DD} = V_{SS} = OV$, $V_{BB} = -5V$

Symbol	Parameter	Typ.	Max.	Unit	Test Condition
$C_\emptyset$	Clock Capacitance	17	25	pF	f_C = 1MHz
C_{IN}	Input Capacitance	6	10	pF	Unmeasured Pins
C_{OUT}	Output Capacitance	10	20	pF	Returned to V_{SS}

Typical Supply Current vs Temperature, Normalized[3]



Data Bus Characteristic During DBIN.



Note 1: The RESET signal must be active for a minimum of 3 clock cycles.
Note 2: When DBIN is high and $V_{IN} > V_{IH}$ an internal active pullup will be switched onto the Data Bus.
Note 3: ΔI supply/ ΔT_A = -0.45%/°C.

ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Min.	Typ.	Max.	Unit	Test Condition
V_{ILC}	Clock Input Low Voltage	V_{SS}-1	—	V_{SS}+0.8	V	
V_{IHC}	Clock Input High Voltage	9.0	—	V_{DD}+1	V	
V_{IL}	Input Low Voltage	V_{SS}-1	—	V_{SS}+0.8	V	
V_{IH}	Input High Voltage	3.3	—	V_{CC}+1	V	
V_{OL}	Output Low Voltage			0.45	V	I_{OL} = 1.9mA on all outputs,
V_{OH}	Output High Voltage	3.7			V	I_{OH} = 150µA.
$I_{DD\ AV}$	Avg. Power Supply Current (V_{DD})		40	70	mA	Operation
$I_{CC\ AV}$	Avg. Power Supply Current (V_{CC})		60	80	mA	t_{CY} = 0.48µs
$I_{BB\ AV}$	Avg. Power Supply Current (V_{BB})		0.01	1	mA	
I_{IL}	Input Leakage			±10	µA	$V_{SS} \le V_{IN} \le V_{CC}$
I_{CL}	Clock Leakage			±10	µA	$V_{SS} \le V_{CLOCK} \le V_{DD}$
I_{DL}[2]	Data Bus Leakage in Input Mode			-100 -2.0	µA mA	$V_{SS} \le V_{IN} \le V_{SS}$ + 0.8V V_{SS} = 0.8V $\le V_{IN} \le V_{CC}$
I_{FL}	Address and Data Bus Leakage During HOLD			+10 -100	µA µA	$V_{ADDR\ DATA} = V_{CC}$ $V_{ADDR\ DATA} = V_{SS}$ + 0.45V

STATUS WORD CHART

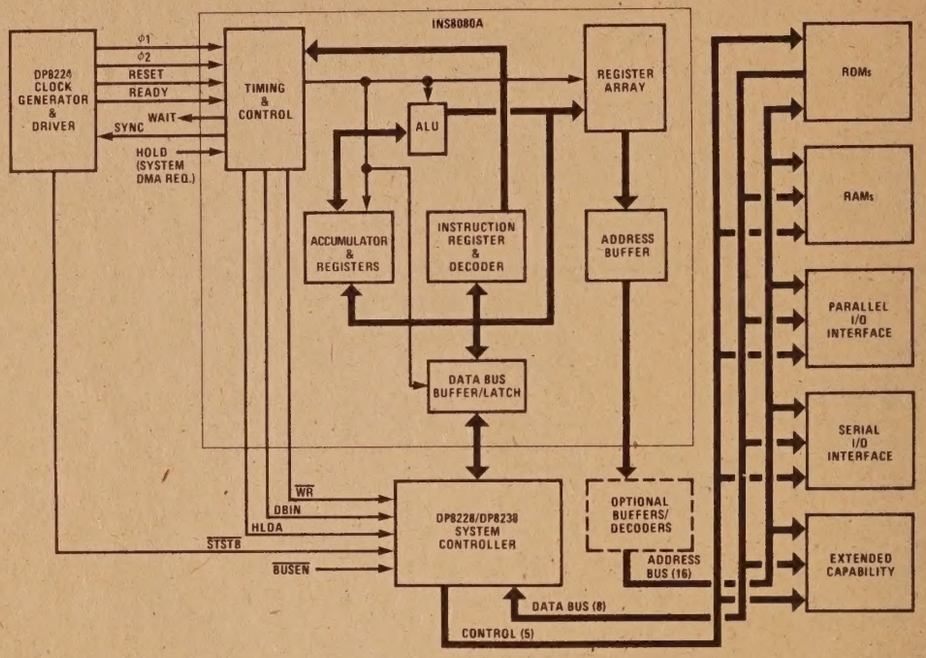
Machine Cycle	Type	Data Bus Bit							
		D_7	D_6	D_5	D_4	D_3	D_2	D_1	D_0
Instruction Fetch	1	1	0	1	0	0	0	1	0
Memory Read	2	1	0	0	0	0	0	1	0
Memory Write	3	0	0	0	0	0	0	0	0
Stack Read	4	1	0	0	0	0	1	1	0
Stack Write	5	0	0	0	0	0	1	0	0
Input Read	6	0	1	0	0	0	0	1	0
Output Write	7	0	0	0	1	0	0	0	0
Interrupt Acknowledge	8	0	0	1	0	0	0	1	1
Halt Acknowledge	9	1	0	0	0	1	0	1	0
Interrupt Acknowledge While Halt	10	0	0	1	0	1	0	1	1

ABSOLUTE MAXIMUM RATINGS

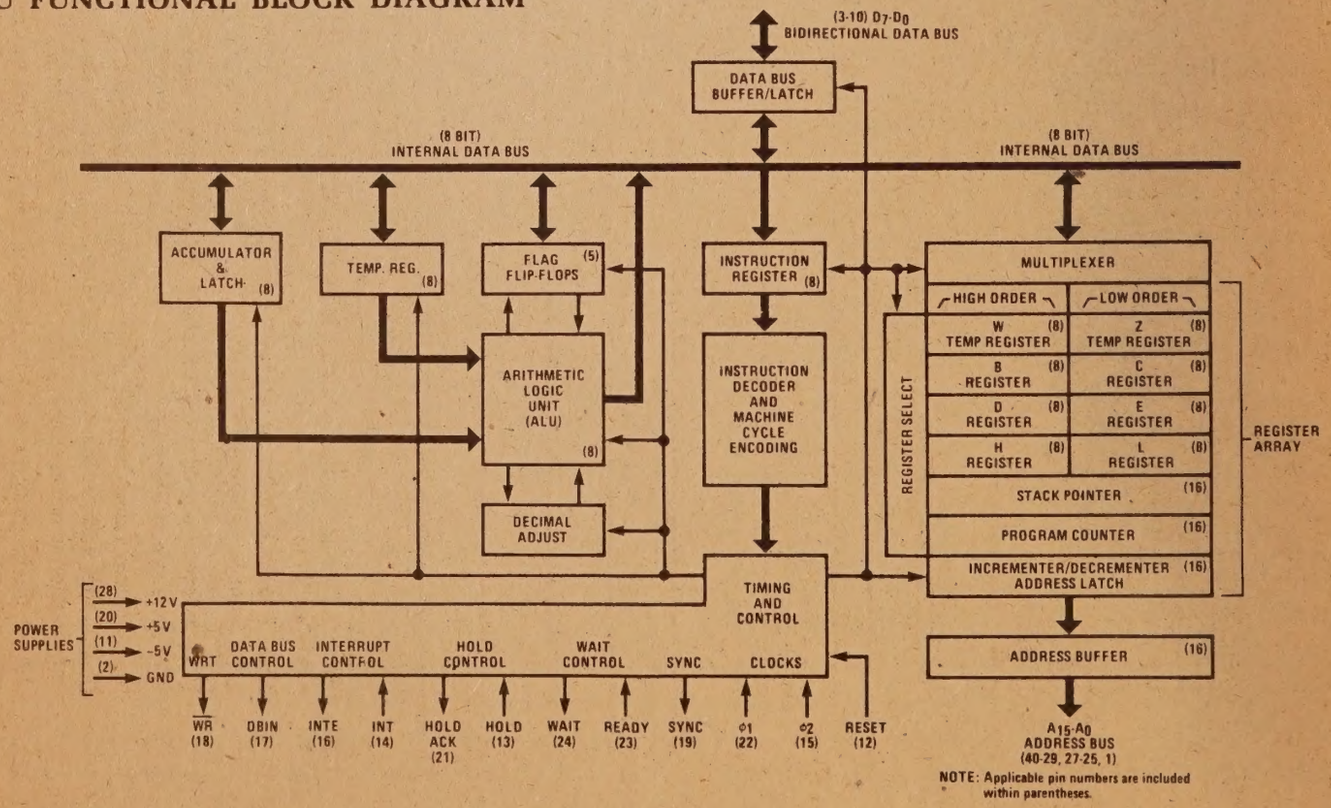
Temperature Under Bias ..... 0°C to +70°C
Storage Temperature ..... -65°C to +150°C
All Input or Output Voltages
with Respect to V_{BB} ..... -0.3V to +20V
V_{CC}, V_{DD} and V_{SS} with Respect to V_{BB} ..... -0.3V to +20V
Power Dissipation 1.5W

Note: Maximum ratings indicate limits beyond which permanent damage may occur. Continuous operation at these limits is not intended and should be limited to those conditions specified under dc electrical characteristics.

BLOCK DIAGRAM



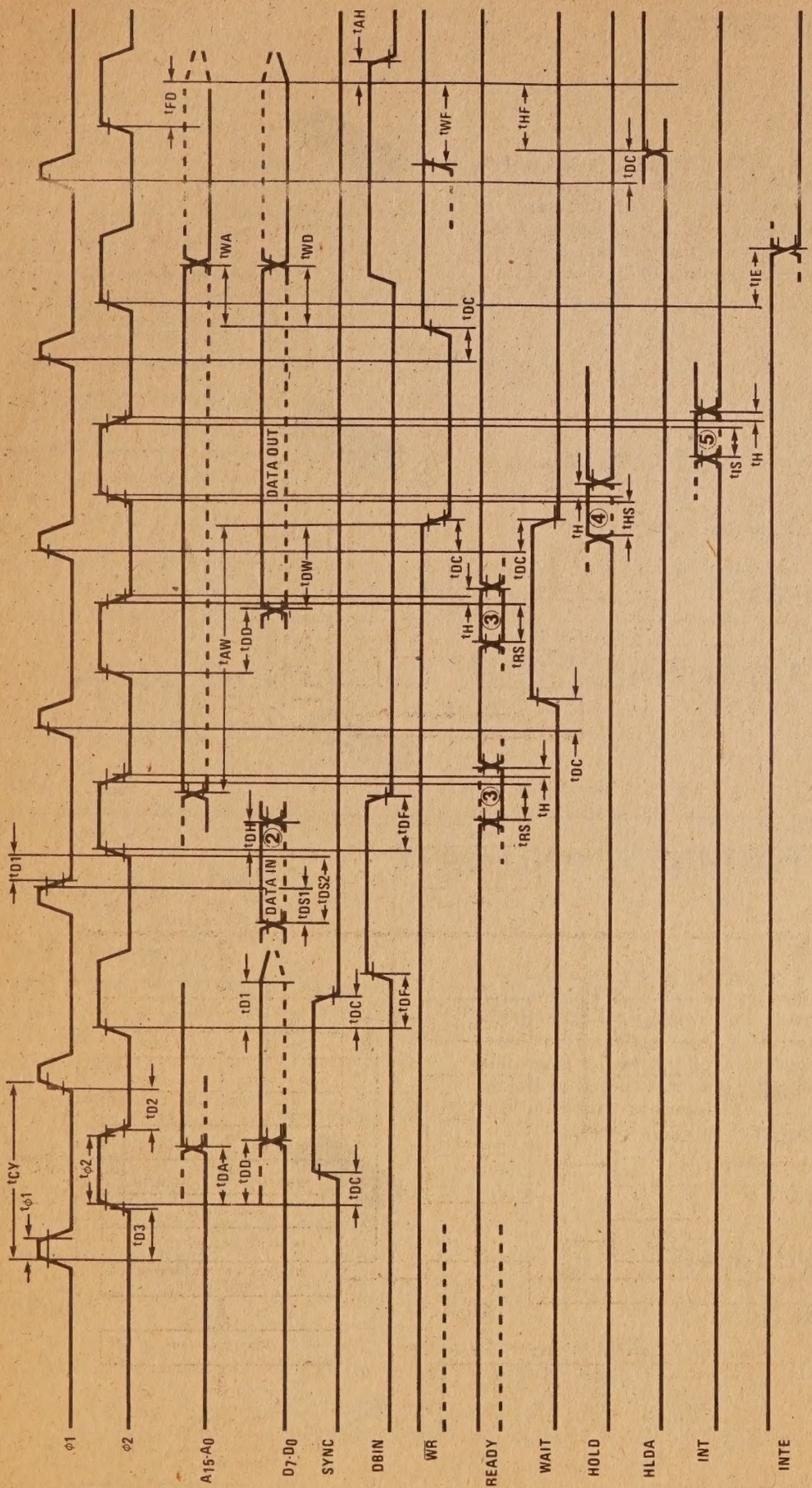
CPU FUNCTIONAL BLOCK DIAGRAM



NOTE: Applicable pin numbers are included within parentheses.

TIMING WAVEFORMS[1]

Note: Timing measurements are made at the following reference voltages: CLOCK '1' = 8.0V, '0' = 1.0V; INPUTS '1' = 3.3V, '0' = 0.8V; OUTPUTS '1' = 2.0V, '0' = 0.8V.



Note: 1 This timing diagram shows timing relationships only, it does not represent any specific machine cycle.

Note 2: Data in must be stable for this period during DBIN·T_3. Both t_{DS1} and t_{DS2} must be satisfied.

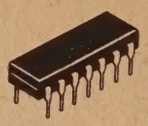
Note 3: Ready signal must be stable for this period during T_2 or T_W. (Must be externally synchronized.)

Note 4: Hold signal must be stable for this period during T_2 or T_W when entering hold mode, and during T_3, T_4, T_5 and T_{WH} when in hold mode. (External synchronization is not required.)

Note 5: Interrupt signal must be stable during this period of the last clock cycle of any instruction in order to be recognized on the following instruction. (External synchronization is not required.)

74C00 276-2301
74C02 276-2302
74C04 276-2303

QUAD TWO-INPUT NAND GATE
QUAD TWO-INPUT NOR GATE
HEX INVERTER



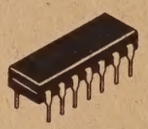
GENERAL DESCRIPTION

These logic gates employ complementary MOS (CMOS) to achieve wide power supply operating range, low power consumption, high noise immunity and symmetric controlled rise and fall times. With features such as this the 74C logic family is close to ideal for use in digital systems. Function and pin out compatibility with series 74 devices minimizes design time for those designers already familiar with the standard 74 logic family.

All inputs are protected from damage due to static discharge by diode clamps to V_{CC} and GND.

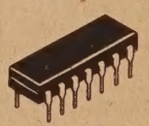
FEATURES

- Wide supply voltage range 3.0V to 15V
- Guaranteed noise margin 1.0V.
- High noise immunity 0.45 V_{CC} typ.
- Low power consumption 10 nW/package typ.
- Low power TTL compatibility fan out of 2 driving 74L



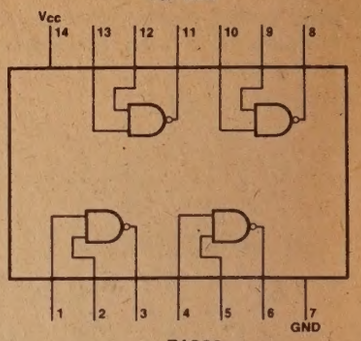
ABSOLUTE MAXIMUM RATINGS

Voltage at Any Pin ..... -0.3V to V_{CC} +0.3V
Operating Temperature Range ..... -40°C to +85°C
Storage Temperature Range ..... -65°C to +150°C
Maximum V_{CC} Voltage 16V
Package Dissipation ..... 500 mW
Lead Temperature (Soldering, 10 seconds) ..... 300°C

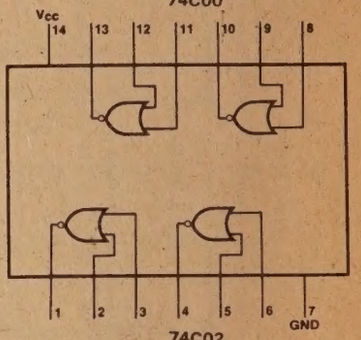


PIN CONNECTION

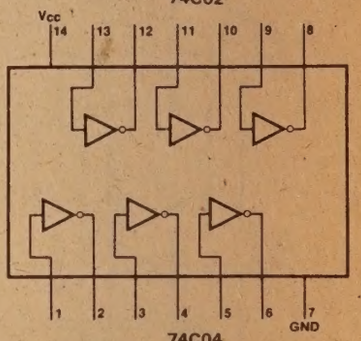
TOP VIEW



74C00



74C02



74C04

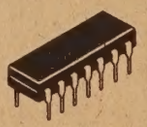
74C08 276-2305 QUAD TWO-INPUT AND GATE

GENERAL DESCRIPTION

Employing complementary MOS (CMOS) transistors to achieve wide power supply operating range, low power consumption and high noise margin these gates provide basic functions used in the implementation of digital integrated circuit systems. The N and P-channel enhancement mode transistors provide a symmetrical circuit with output swing essentially equal to the supply voltage. No dc power other than that caused by leakage current is consumed during static condition. All inputs are protected from damage due to static discharge by diode clamps to V_{CC} and GND.

FEATURES

- Wide supply voltage range 3.0V to 15V
- Guaranteed noise margin 1.0V
- High noise immunity 0.45V_{CC} typ
- Low power TTL compatibility fan out of 2 driving 74L
- Low power consumption 10 nW/package typ

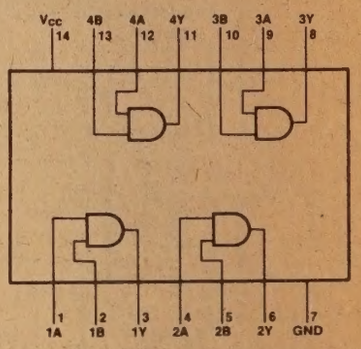


ABSOLUTE MAXIMUM RATINGS

Voltage at Any Pin ..... -0.3 to V_{CC} +0.3V
Operating Temperature Range ..... -40°C to +85°C
Storage Temperature Range ..... -65°C to +150°C
Package Dissipation ..... 500 mW
Operating V_{CC} Range ..... 3.0V to 15V
Absolute Maximum V_{CC} 16V
Lead Temperature (Soldering, 10 seconds) ..... 300°C

PIN CONNECTION

TOP VIEW



TRUTH TABLE

INPUTS		OUTPUT
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

H = High Level
L = Low Level

DUAL D FLIP-FLOP

74C74
276-2310

GENERAL DESCRIPTION

The 74C74 dual D flip flop is a monolithic complementary MOS (CMOS) integrated circuit constructed with N- and P-channel enhancement transistors. Each flip flop has independent data, preset, clear and clock inputs and Q and $\overline{Q}$ outputs: The logic level present at the data input is transferred to the output during the positive going transition of the clock pulse. Preset or clear is independent of the clock and accomplished by a low level at the preset or clear input.

APPLICATIONS

- Automotive
- Data terminals
- Instrumentation
- Medical electronics
- Alarm system
- Industrial electronics
- Remote metering
- Computers

FEATURES

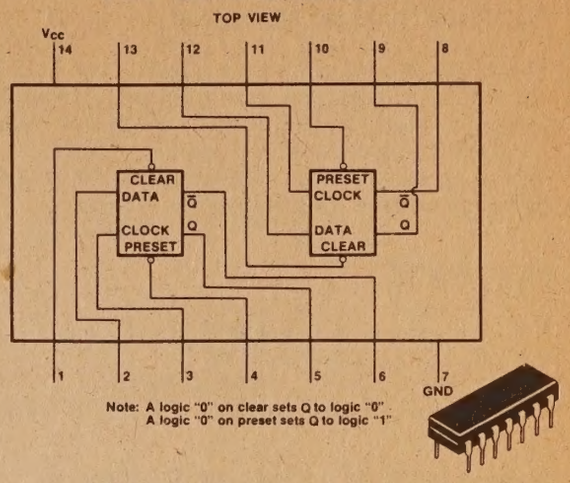
- Supply voltage range 3V to 15V
- Tenth power TTL compatible drive 2LPT²L loads
- High noise immunity 0.45 V_{CC} (typ)
- Low power 50 nW (typ)
- Medium speed operation 10 MHz (typ) with 10V supply

ABSOLUTE MAXIMUM RATINGS

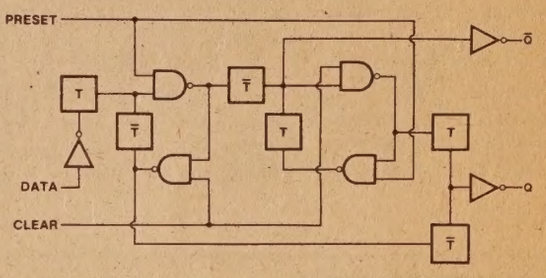
Voltage at any pin (Note 1) ..... -0.3 to V_{CC} +0.3V
Operating temperature ..... 40°C to +85°C
Storage temperature ..... -65°C to 150°C
Maximum V_{CC} Voltage 16V
Package dissipation ..... 500 mW
Lead temperature (Soldering, 10 sec) ..... 300°C
Operating V_{CC} range ..... +3V to +15V

Note 1: These devices should not be connected under power on conditions.

PIN CONNECTION



LOGIC DIAGRAM



DUAL J-K FLIP-FLOPS WITH CLEAR AND PRESET

74C76
276-2312

GENERAL DESCRIPTION

These dual J-K flip-flops are monolithic complementary MOS (CMOS) integrated circuits constructed with N- and P-channel enhancement transistors. Each flip-flop has independent J, K, clock and clear inputs and Q and $\overline{Q}$ outputs. The 74C76 flip flops also include preset inputs and are supplied in 16 pin packages. These flip flops are edge sensitive to the clock input and change state on the negative going transition of the clock pulses. Clear or preset is independent of the clock and is accomplished by a low level on the respective input.

APPLICATIONS

- Automotive
- Data terminals
- Instrumentation
- Medical electronics
- Alarm systems
- Industrial electronics
- Remote metering
- Computers

FEATURES

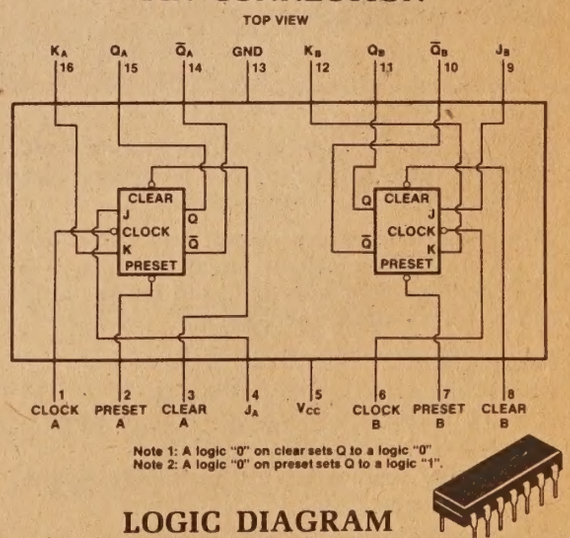
- Supply voltage range 3V to 15V
- Tenth power TTL compatible drive 2 LPTTL loads
- High noise immunity 0.45 V_{CC} (typ)
- Low power 50 nW (typ)
- Medium speed operation 10 MHz (typ) with 10V supply

ABSOLUTE MAXIMUM RATINGS

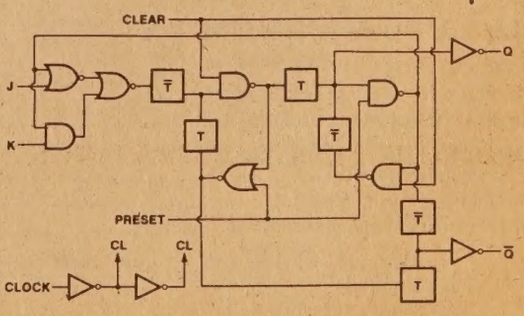
Voltage at any pin (Note 1) ..... -0.3V to V_{CC} +0.3V
Operating Temperature ..... -40°C to +85°C
Storage Temperature ..... -65°C to 150°C
Maximum V_{CC} Voltage 16V
Package Dissipation ..... 500 mW
Lead Temperature (Soldering, 10 sec) ..... 300°C
Operating V_{CC} Range ..... +3V to 15V

Note 1: This device should not be connected to circuits with the power on because high transient voltages may cause permanent damage.

PIN CONNECTION



LOGIC DIAGRAM



74C90 276-2315 FOUR-BIT DECADE COUNTER

GENERAL DESCRIPTION

The 74C90 decade counter is constructed with N and P-channel enhancement mode transistors. The 4-bit decade counter can be reset to zero or preset to nine by applying appropriate logic level on the R_{01}, R_{02}, R_{91} and R_{92} inputs, also a separate flip-flop on the A-bit enables the user to operate it as a divide-by-2, 5 or 10 frequency counter. All inputs are protected against static discharge damage.

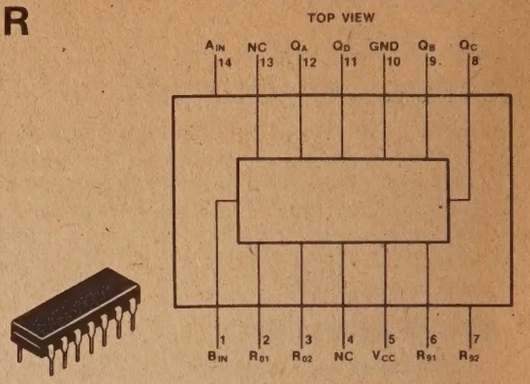
FEATURES

- Wide supply voltage range 3V to 15V
- Guaranteed noise margin 1V
- High noise immunity 0.45 V_{CC} (typ)
- Low power TTL compatibility fan out of 2 driving 74L

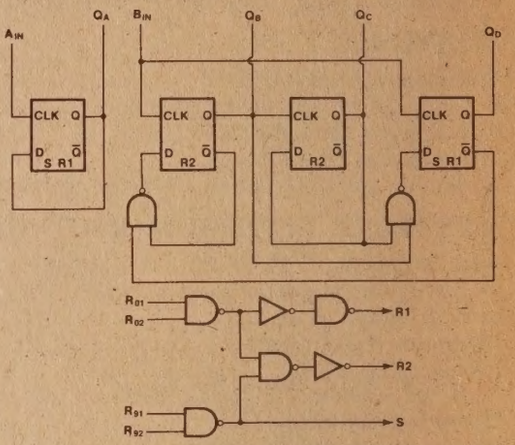
ABSOLUTE MAXIMUM RATINGS

Voltage at Any Pin ..... -0.3V to V_{CC} +0.3V
Operating Temperature Range ..... -40°C to +85°C
Package Dissipation ..... 500 mW
Operating V_{CC} Range ..... 3V to 15V
Absolute Maximum V_{CC} 16V
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ..... 300°C

PIN CONNECTION



LOGIC DIAGRAM



74C192 276-2321 74C193 276-2322 SYNCHRONOUS FOUR-BIT UP/DOWN DECADE SYNCHRONOUS FOUR-BIT UP/DOWN BINARY

GENERAL DESCRIPTION

These up/down counters are monolithic complementary MOS (CMOS) integrated circuits. The 74C192 is a BCD counter. While the 74C193 is a binary counter.

Counting up and counting down is performed by two count inputs, one being held high while the other is clocked. The outputs change on the positive going transition of this clock.

These counters feature preset inputs that are set when load is a logical "0" and a clear which forces all outputs to "0" when it is at logical "1". The counters also have carry and borrow outputs so that they can be cascaded using no external circuitry.

FEATURES

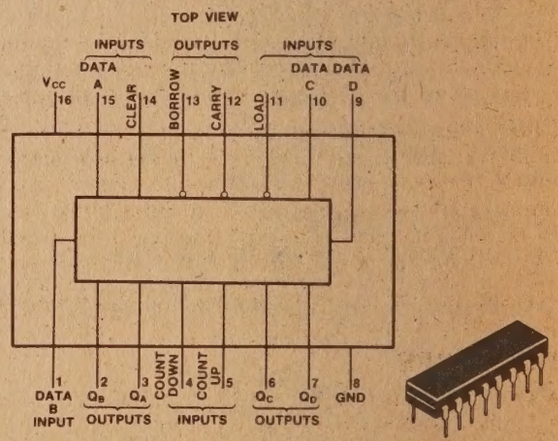
- High noise margin 1V guaranteed
- Tenth power TTL compatible drive 2 LPTTL loads
- Wide supply range 3V to 15V
- Carry and borrow outputs for N-bit cascading
- Asynchronous clear
- High noise immunity 0.45 V_{CC} typ

ABSOLUTE MAXIMUM RATINGS

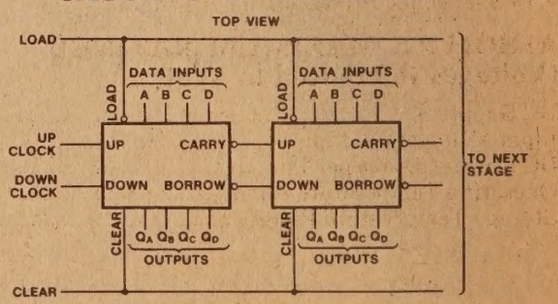
Voltage at Any Pin (Note 1) ..... -0.3V to V_{CC} +0.3V
Operating Temperature Range ..... -40°C to +85°C
Storage Temperature Range ..... -65°C to +150°C
Maximum V_{CC} Voltage 16V
Package Dissipation ..... 500 mW
Operating V_{CC} Range ..... +3V to +15V
Lead Temperature (Soldering, 10 sec) ..... 300°C

Note 1: This device should not be connected to circuits with the power on because high transient voltage may cuase permanent damage.

PIN CONNECTION


TOP VIEW
INPUTS OUTPUTS INPUTS
DATA DATA DATA
V_{CC} A CLEAR BORROW CARRY LOAD C D
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
DATA B INPUT Q_B Q_A COUNT DOWN COUNT UP Q_C Q_D GND
OUTPUTS INPUTS OUTPUTS

CASCADING PACKAGES



QUAD TWO-INPUT NOR GATE

4001
276-2401

GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

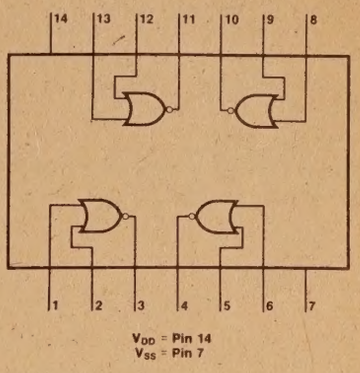
FEATURES

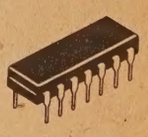
- Quiescent Current = 0.5 nA typ/pkg @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Single Supply Operation—Positive or Negative
- High Fanout > 50
- Input Impedance = 10^{12} ohms typical
- Logic Swing Independent of Fanout

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to 85°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION





QUAD TWO-INPUT NAND GATE

4011
276-2411

GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

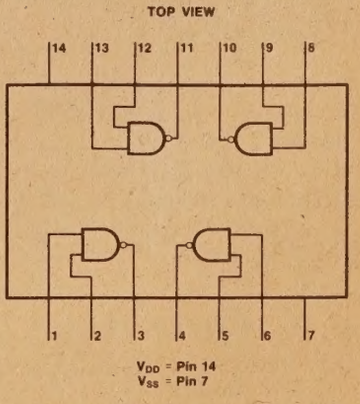
FEATURES

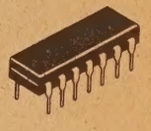
- Quiescent Current = 0.5 nA typ/pkg @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typ
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Double Diode Protection on All Inputs

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

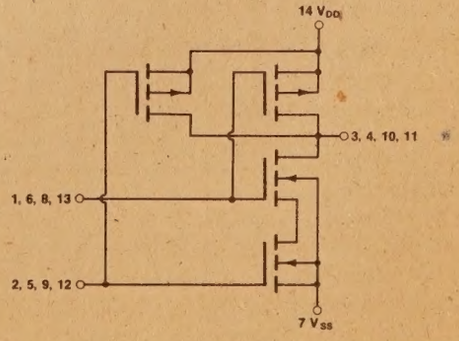
DC Supply	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION





CIRCUIT SCHEMATIC



4013
276-2413

DUAL TYPE D FLIP-FLOP

GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data, (D), Direct Set, (S), Direct Reset, (R), and Clock (C) inputs and complementary outputs (Q and $\overline{Q}$). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

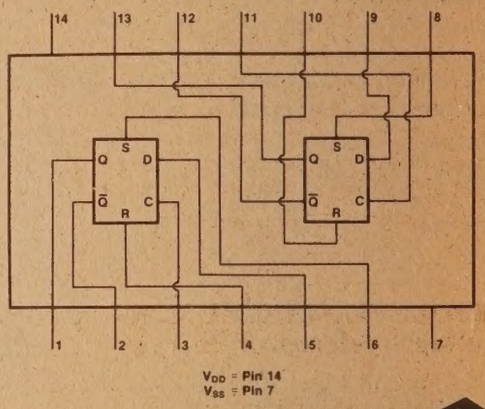
This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.
Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

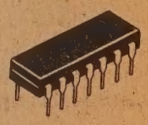
- Static Operation
- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Single Supply Operation
- Toggle Rate = 4 MHz typical @ 5 Vdc
- Logic Edge-Clocked Flip-Flop Design—Logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

PIN CONNECTION

TOP VIEW



V_{DD} = Pin 14
V_{SS} = Pin 7



ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage ..... -0.5 to +16 Vdc
Input Voltage, All Inputs ..... -0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin ..... 10 mAdc
Operating Temperature Range ..... -40 to +85°C
Storage Temperature Range ..... -65 to +150°C

TRUTH TABLE

Inputs				Outputs	
Clock†	Data	Reset	Set	Q	$\overline{Q}$
⌐⌐	0	0	0	0	1
⌐⌐	1	0	0	1	0
⌐⌐	x	0	0	No Change	
x	x	1	0	0	1
x	x	0	1	1	0
x	x	1	1	1	1

x= Don't Care
† = Level Change

DECADE COUNTER/DIVIDER

4017
276-2417

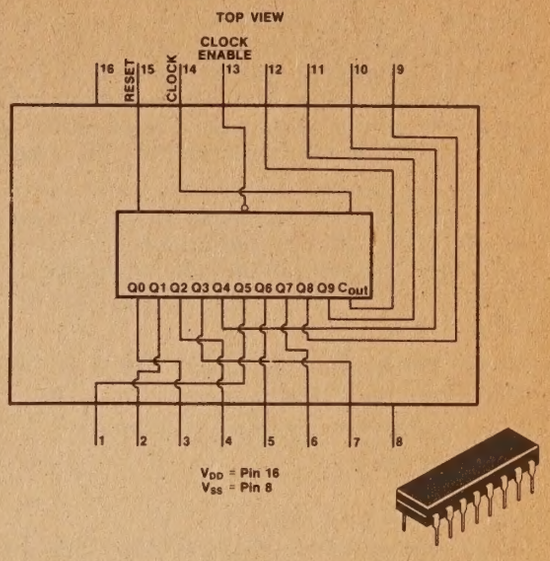
GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

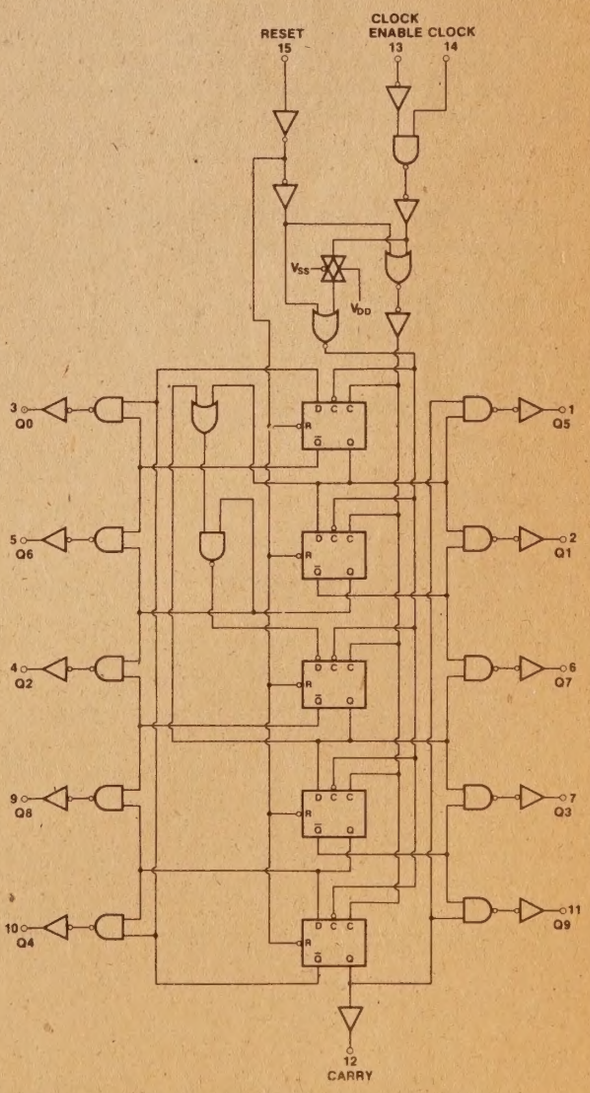
PIN CONNECTION



FEATURES

- Fully Static Operation
- DC Clock Input Circuit Allows Slow Rise Times
- Carry Out Output for Cascading
- 12 MHz (typical) Operation @ V_{DD} = 10 Vdc
- Quiescent Current = 5.0 nA/package Typical @ 5 Vdc
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

LOGIC DIAGRAM



ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

TRUTH TABLE
(Positive Logic)

Clock	Clock Enable	Reset	Decode Output = n
0	x	0	n
x	1	0	n
x	x	1	Q0
⌐	0	0	n + 1
¬	x	0	n
x	⌐	0	n
1	¬	0	n + 1

x = Don't Care If n < 5 Carry = "1", Otherwise = "0"

4020 276-2420 14-BIT BINARY COUNTER

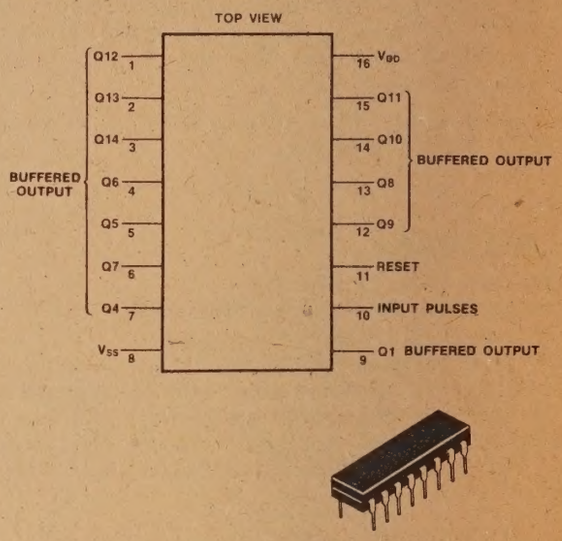
GENERAL DESCRIPTION

The 4020 14-stage binary counter is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. This part is designed with an input wave shaping circuit and 14 stages of ripple-carry binary counter. The device advances the count on the negative-going edge of the clock pulse. Applications include time delay circuits, counter controls, and frequency-dividing circuits.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

PIN CONNECTIONS



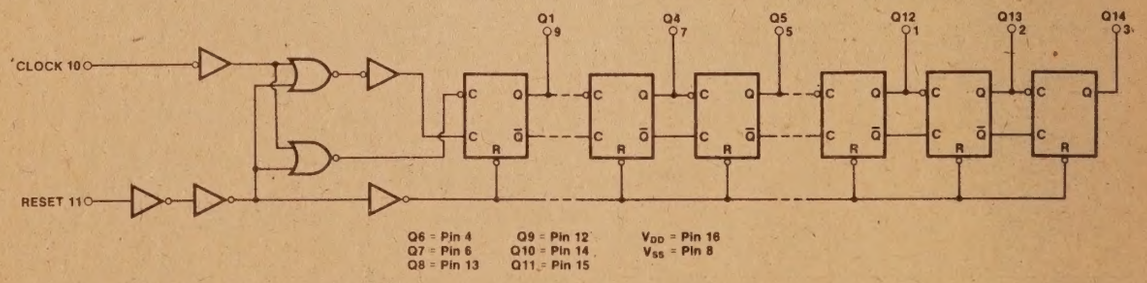
FEATURES

- Fully Static Operation
- Quiescent Current = 5.0 nA/package typical @5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range
- Low Input Capacitance = 5.0pF typical
- Buffered Outputs Available from stages 1 and 4 thru 14
- Common Reset Line
- 13 MHz Typical Counting Rate @ V_{DD} = 15V

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage ..... -0.5 to +16 Vdc
Input Voltage, All Inputs ..... -0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin ..... 10 mAdc
Operating Temperature Range ..... -40 to +85°C
Storage Temperature Range ..... -65 to +150°C

LOGIC DIAGRAM



TRUTH TABLE

Clock	Reset	Output State
⌐	0	No Change
¬	0	Advance to next state
x	1	All Outputs are low

x = Don't Care

DUAL J-K FLIP-FLOP

4027
276-2427

GENERAL DESCRIPTION

The 4027 dual J-K flip-flop has independent J, K, Clock (C), Set (S) and Reset (R) inputs for each flip-flop. These devices may be used in control, register, or toggle functions.

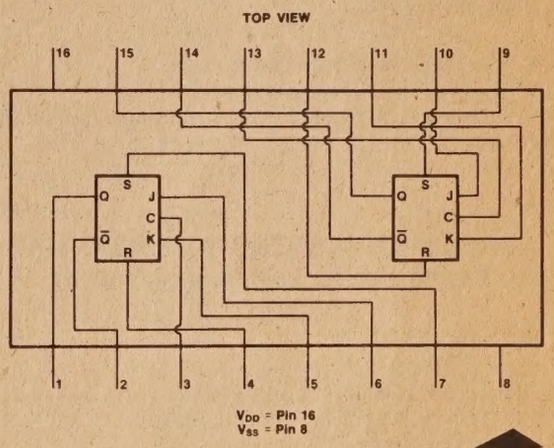
This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Quiescent Current = 2.0 nA/package typical @5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Single Supply Operation—Positive or Negative
- Toggle Rate = 3.0 MHz typical @5 Vdc
- Logic Swing Independent of Fanout
- Logic Edge-Clocked Flip-Flop Design—Logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage ..... -0.5 to +16 Vdc
Input Voltage, All Inputs ..... -0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin ..... 10 mAdc
Operating Temperature Range ..... -40 to +85°C
Storage Temperature Range ..... -65 to +150°C

TRUTH TABLE

Inputs						Outputs*	
C†	J	K	S	R	Qn‡	Qn +1	$\bar{Q}$n +1
⎍	1	x	0	0	0	1	0
⎍	x	0	0	0	1	1	0
⎍	0	x	0	0	0	0	1
⎍	x	1	0	0	1	0	1
⎍	x	x	0	0	x	No Change	
x	x	x	1	0	x	1	0
x	x	x	0	1	x	0	1
x	x	x	1	1	x	1	1

x = Don't Care
† = Level Change
‡ = Present State
* = Next State

4049
276-2449
4050
276-2450

INVERTING HEX BUFFER
NONINVERTING HEX BUFFER

GENERAL DESCRIPTION

The 4049 hex inverter/buffer and 4050 noninverting hex buffer are constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC}. The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL Loads can be driven when the devices are used as CMOS-to-TTL/DTL converters (V_{CC} = 5.0 V, $V_{OL} \leq$ 0.4 V, $I_{OL} \geq$ 3.2 mA). Note that pin 16 is not connected internally on these devices; consequently connections to this terminal will not affect circuit operation.

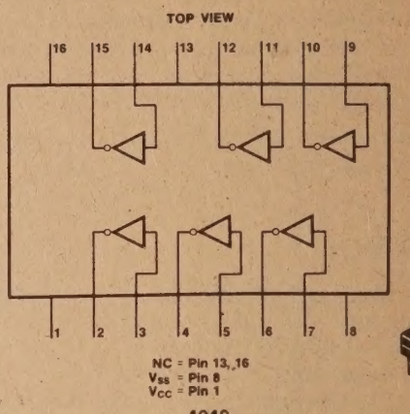
FEATURES

- High Source and Sink Currents
- High-to-Low Level Converter
- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Supply Voltage Range = 3.0 Vdc to 16 Vdc

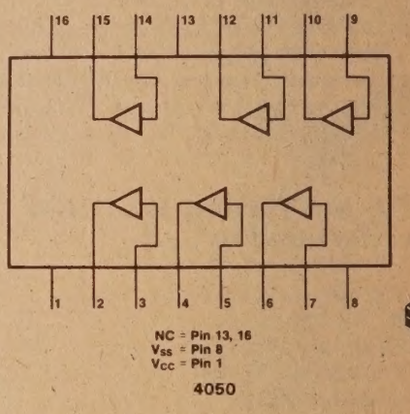
ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to V_{SS}, Pin 8)

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

LOGIC DIAGRAMS

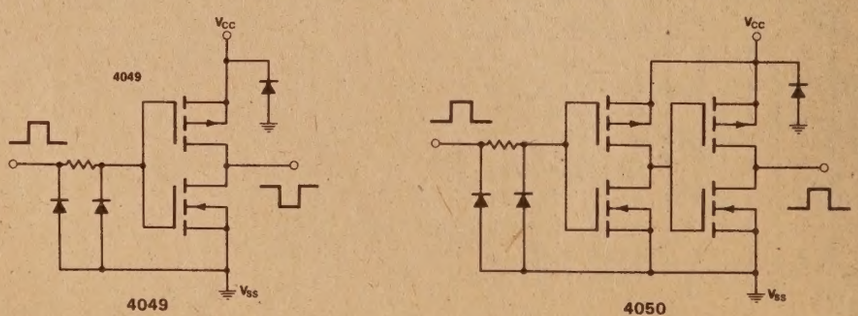


4049



4050

CIRCUIT SCHEMATIC
(1/6 OF CIRCUIT SHOWN)



4049 4050

BCD-TO-SEVEN SEGMENT LATCH/DECODER/DRIVER

4511
276-2447

GENERAL DESCRIPTION

The 4511 BCD-to-seven segment latch/decoder/driver is constructed with complementary MOS (CMOS) enhancement mode devices and NPN bipolar output drivers in a single monolithic structure. The circuit provides the functions of a 4-bit storage latch, an 8421 BCD-to-seven segment decoder, and an output drive capability. Lamp test ($\overline{LT}$), blanking ($\overline{BI}$), and latch enable (LE) inputs are used to test the display, and to store a BCD code, respectively. It can be used with seven-segment light emitting diodes (LED), incandescent, fluorescent, gas discharge, or liquid crystal readouts either directly or indirectly.

Applications include instrument (e.g., counter, DVM, etc.) display driver, computer/calculator display driver, cockpit display driver, and various clock, watch, and timer uses.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. A destructive high current mode may occur if V_{in} and V_{out} is not constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$

Due to the sourcing capability of this circuit, damage can occur to the device if V_{DD} is applied, and the outputs are shorted to V_{SS} and are at a logical 1 (See Maximum Ratings).

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Low Logic Circuit Power Dissipation
- High-Current Sourcing Outputs (Up to 25 mA)
- Latch Storage of Code
- Blanking Input
- Lamp Test Provision
- Readout Blanking on all Illegal Input Combinations
- Lamp Intensity Modulation Capability
- Time Share (Multiplexing) Facility
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Input Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150
Maximum Continuous Output Drive Current (Source) per Output	25 mA
Maximum Continuous Output Power (Source) per Output ‡	50 mW

‡$P_{OHmax} = I_{OH}(V_{DD}-V_{OH})$.

TRUTH TABLE

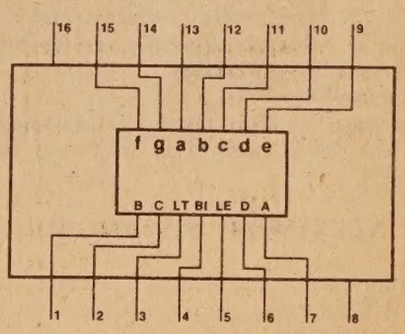
Inputs							Outputs							
LE	$\overline{BI}$	$\overline{LT}$	D	C	B	A	a	b	c	d	e	f	g	Display
x	x	0	x	x	x	x	1	1	1	1	1	1	1	8
x	0	1	x	x	x	x	0	0	0	0	0	0	0	Blank
0	1	1	0	0	0	0	1	1	1	1	1	1	0	0
0	1	1	0	0	0	1	0	1	1	0	0	0	0	1
0	1	1	0	0	1	0	1	1	0	1	1	0	1	2
0	1	1	0	0	1	1	1	1	1	1	0	0	1	3
0	1	1	0	1	0	0	0	1	1	0	0	1	1	4
0	1	1	0	1	0	1	1	0	1	1	0	1	1	5
0	1	1	0	1	1	0	0	0	1	1	1	1	1	6
0	1	1	0	1	1	1	1	1	1	0	0	0	0	7
0	1	1	1	0	0	0	1	1	1	1	1	1	1	8
0	1	1	1	0	0	1	1	1	1	0	0	1	1	9
0	1	1	1	0	1	0	0	0	0	0	0	0	0	Blank
0	1	1	1	0	1	1	0	0	0	0	0	0	0	Blank
0	1	1	1	1	0	0	0	0	0	0	0	0	0	Blank
0	1	1	1	1	0	1	0	0	0	0	0	0	0	Blank
0	1	1	1	1	1	0	0	0	0	0	0	0	0	Blank
0	1	1	1	1	1	1	0	0	0	0	0	0	0	Blank
1	1	1	x	x	x	x								

x = Don't Care

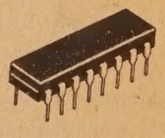
*Depends upon the BCD code previously applied when LE = 0

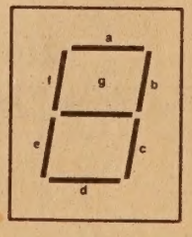
PIN CONNECTION

TOP VIEW

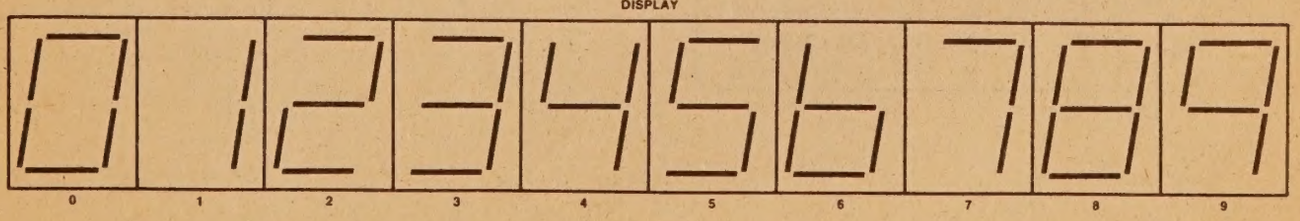


V_{DD} = Pin 16
V_{SS} = Pin 8





DISPLAY



4518 276-2490 DUAL BCD UP COUNTER

GENERAL DESCRIPTION

The 4518 dual BCD counter is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. IT consists of two identical, independent, internally synchronous 4-stage counters. The counter stages are type D flip-flops, with interchangeable Clock and Enable lines for incrementing on either the positive-going or negative-going transition as required when cascading multiple stages. Each counter can be cleared by applying a high level on the Reset line. In addition, the 4518 will count out of all undefined states within two clock periods. These complementary MOS up counters find primary use in multi-stage synchronous or ripple counting applications requiring low power dissipation and/or high noise immunity.

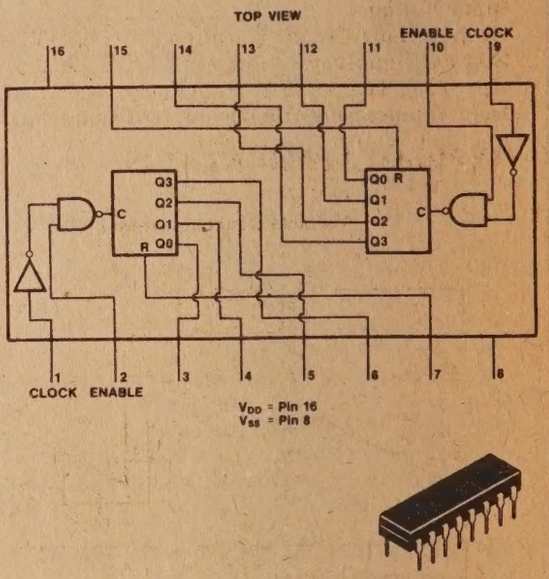
This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of V_{DD} typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Low Input Capacitance = 5.0 pF typical
- Internally Synchronous for High Internal and External Speeds
- Logic Edge-Clocked Design—Incremented on Positive Transition of Clock or Negative Transition on Enable
- 6.0 MHz Counting Rate
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

PIN CONNECTION



ABSOLUTE MAXIMUM RATINGS

DC Supply Voltage ..... -0.5 to +16 Vdc
Input Voltage, All Inputs ..... -0.5 to V_{DD} +0.5 Vdc
DC Current Drain per Pin ..... 10 mAdc
Operating Temperature Range ..... -40 to +85°C
Storage Temperature Range ..... -65 to +150°C

TRUTH TABLE

Clock	Enable	Reset	Action
⌐¬	1	0	Increment Counter
0	¬⌐	0	Increment Counter
¬⌐	x	0	No Change
x	⌐¬	0	No Change
⌐¬	0	0	No Change
1	¬⌐	0	No Change
x	x	1	Q1 thru Q4=0

x = Don't Care

OPERATIONAL AMPLIFIER

301
276-017

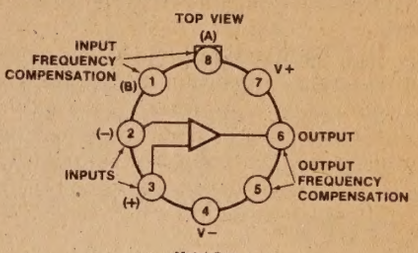
GENERAL DESCRIPTION

The 301 is a monolithic operational amplifier intended for general purpose applications. Operation is completely specified over the range of voltages commonly used for these devices. The design, in addition to providing high gain, minimizes both offset voltage and bias currents. Further, the class-B output stage gives a large output capability with minimum power drain.

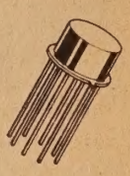
External components are used to frequency compensate the amplifier. Although the unity-gain compensation network specified will make the amplifier unconditionally stable in all feedback configurations, compensation can be tailored to optimize high-frequency performance for any gain setting.

The fact that the amplifier is built on a single silicon chip provides low offset and temperature drift at minimum cost. It also ensures negligible drift due to temperature gradients in the vicinity of the amplifier.

PIN CONNECTION



Metal Can
Note: Pin 4 connected to case.

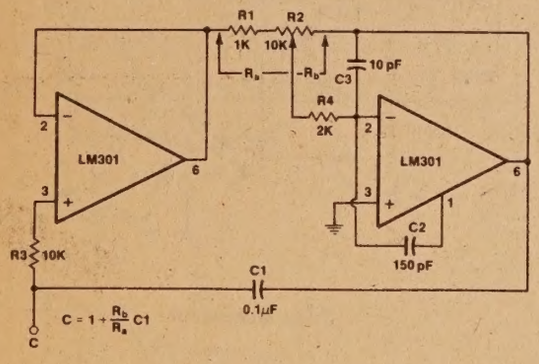


ABSOLUTE MAXIMUM RATINGS

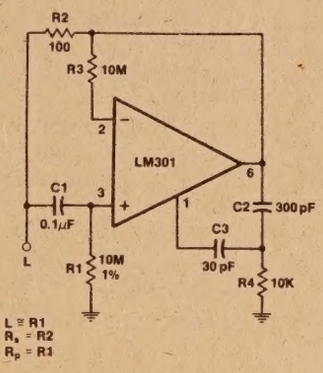
Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short-Circuit Duration (T_A = 55°C)	Indefinite
Storage Temperature Range	-65°C to +150°C
Operating Temperature Range	0°C to +70°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS

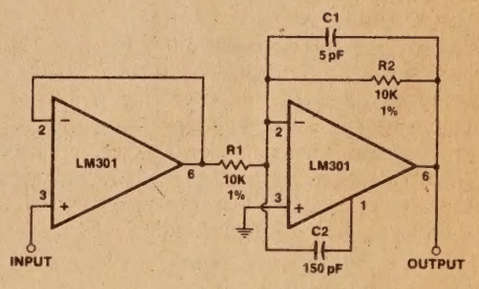
Variable Capacitance Multiplier



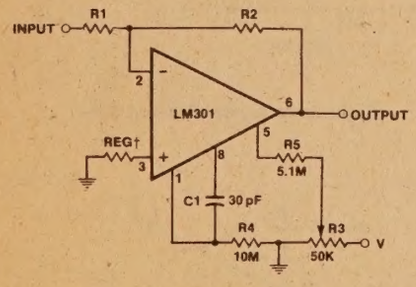
Simulated Inductor



Fast Inverting Amplifier with High Input Impedance

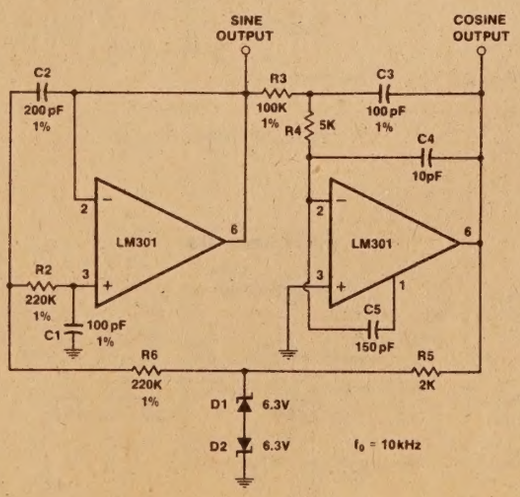


Inverting Amplifier with Balancing Circuit

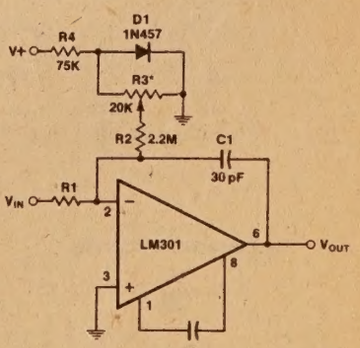


† May be zero or equal to parallel combination of R1 and R2 for minimum offset.

Sinewave Oscillator



Integrator with Bias Current Compensation



* Adjust for zero integrator drift.

324
276-1711

QUAD OP AMP

GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional ±15 V_{DC} power supplies.

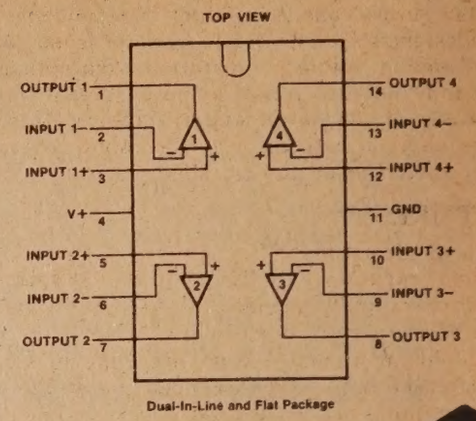
FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
  Single supply 3 V_{DC} to 30 V_{DC}
  or dual supplies ±1.5 V_{DC} to ±15 V_{DC}
- Very low supply current drain (800μA)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V^+—1.5 V_{DC}

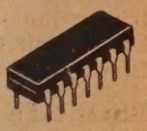
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V^+ ..... 32 V_{DC} or ±16 V_{DC}
Differential Input Voltage ..... 32 V_{DC}
Input Voltage ..... -0.3 V_{DC} to +32 V_{DC}
Power Dissipation
  Molded DIP ..... 570 mW
  Cavity DIP ..... 900 mW
Output Short-Circuit to GND (One Amplifier) ..... Continuous
  $V^+ \leq 15\ V_{DC}$ and $T_A = 25°C$
Input Current ($V_{IN} < -0.3\ V_{OL}$) ..... 50 mA
Operating Temperature Range ..... 0°C to +70°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ..... 300°C

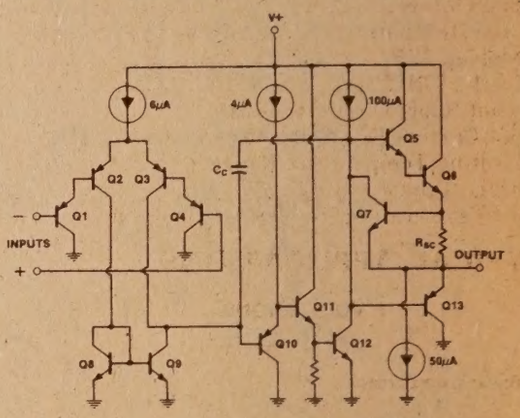
PIN CONNECTION



Dual-In-Line and Flat Package

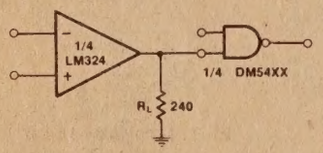


SCHEMATIC DIAGRAM (Each Amplifier)

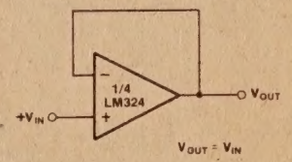


TYPICAL APPLICATIONS

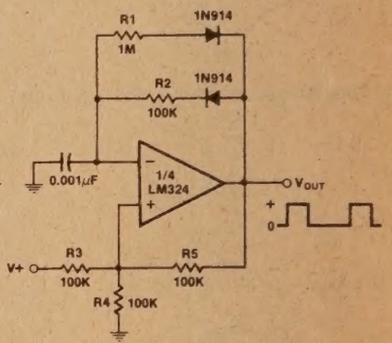
Driving TTL



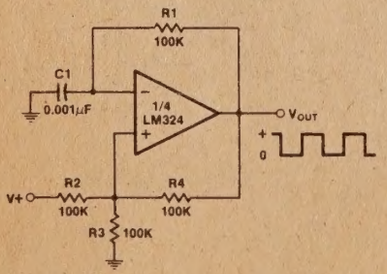
Voltage Follower



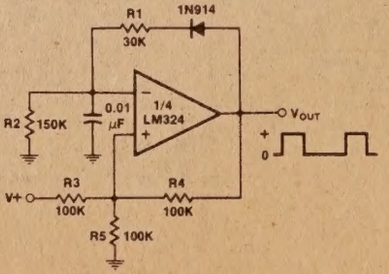
Pulse Generator



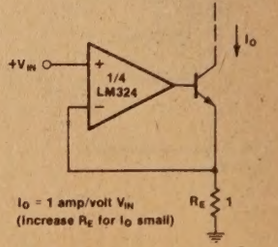
Squarewave Oscillator



Pulse Generator



High Compliance Current Sink



QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

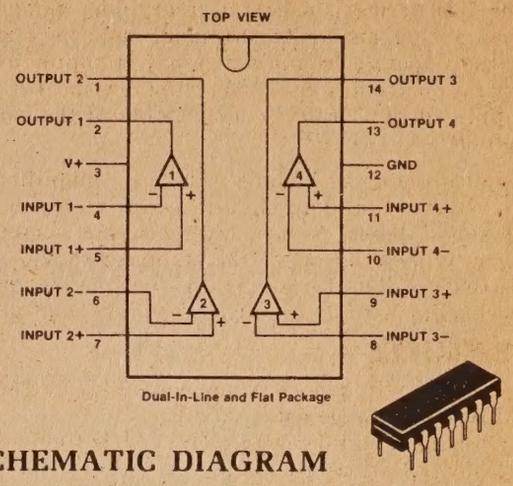
FEATURES

- Wide single supply:
  Voltage range $2V_{DC}$ to $32V_{DC}$ or dual supplies $\pm1V_{DC}$ to $\pm16V_{DC}$
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at +5 V_{DC})
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at 5μA; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

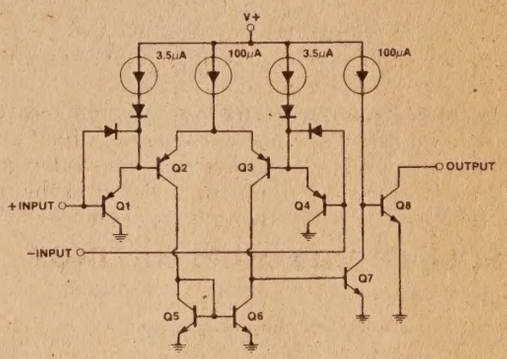
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V^+	32 V_{DC} or ±16 V_{DC}
Differential Input Voltage	36 V_{DC}
Input Voltage	-0.3 V_{DC} to +36 V_{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current (V_{IN} <-0.3 V_{DC})	50 mA
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



SCHEMATIC DIAGRAM

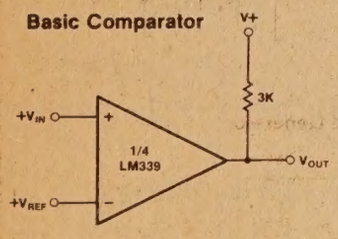


TYPICAL APPLICATIONS

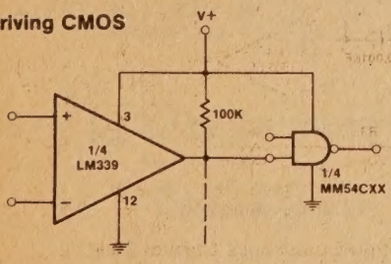
5 VOLT GROUP

(V^+ = 5.0 V_{DC})

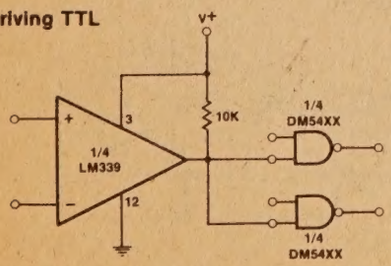
Basic Comparator



Driving CMOS



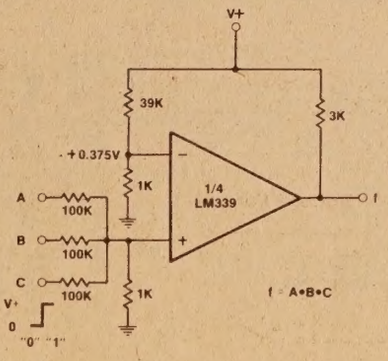
Driving TTL



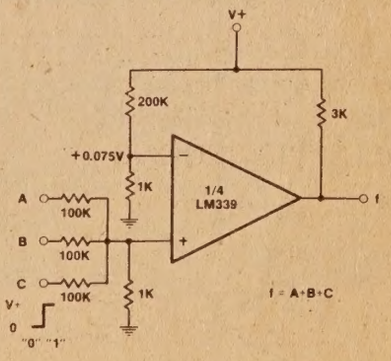
15V GROUP

(V^+ = 15 V_{DC})

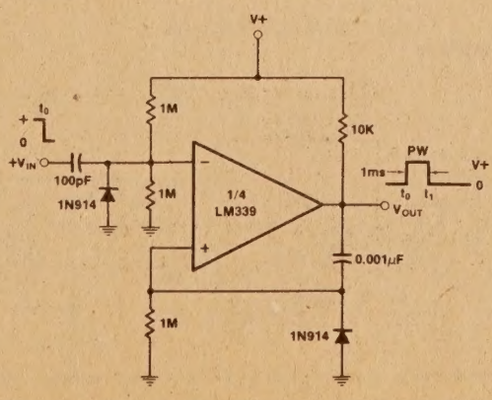
AND Gate



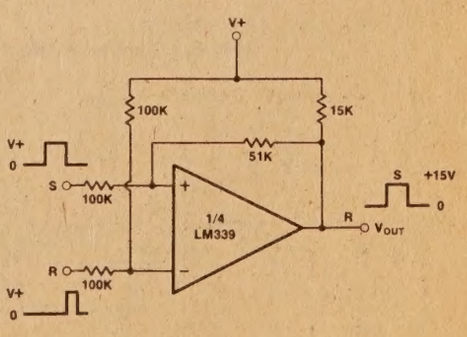
OR Gate



One-Shot Multivibrator



Bi-Stable Multivibrator



377
276-702

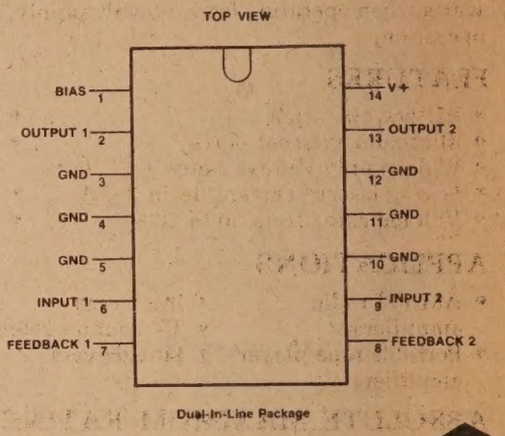
DUAL TWO-WATT AUDIO AMPLIFIER

GENERAL DESCRIPTION

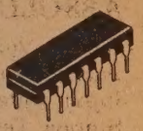
The 377 is a monolithic dual power amplifier which offers high quality performance for stereo phonographs, tape players, recorders, and AM-FM stereo receivers, etc.

The 377 will deliver 2W/channel into 8 or 16Ωloads. The amplifier is designed to operate with a minimum of external components and contains an internal bias regulator to bias each amplifier. Device overload protection consists of both internal current limit and thermal shutdown.

PIN CONNECTION



Dual-In-Line Package



FEATURES

- A_{VO} typical 90 dB
- 2W per channel
- 70 dB ripple rejection
- 75 dB channel separation
- Internal stabilization
- Self centered biasing
- 3 MΩ input impedance
- 10-26V operation
- Internal current limiting
- Internal thermal protection

APPLICATIONS

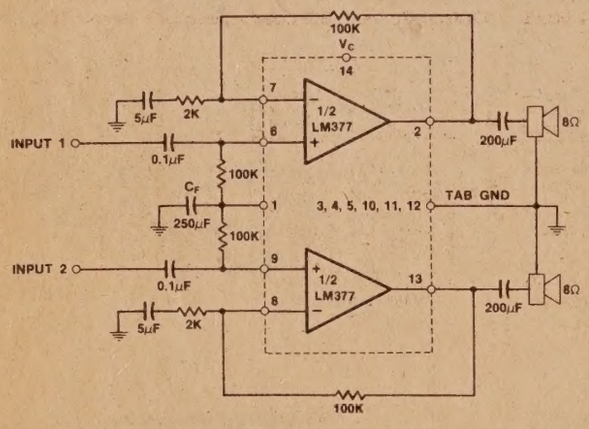
- Multi-channel audio systems
- Tape recorders and players
- Movie projectors
- Automotive systems
- Stereo phonographs
- Bridge output stages
- AM-FM radio receivers
- Intercoms
- Servo amplifiers
- Instrument systems

ABSOLUTE MAXIMUM RATINGS

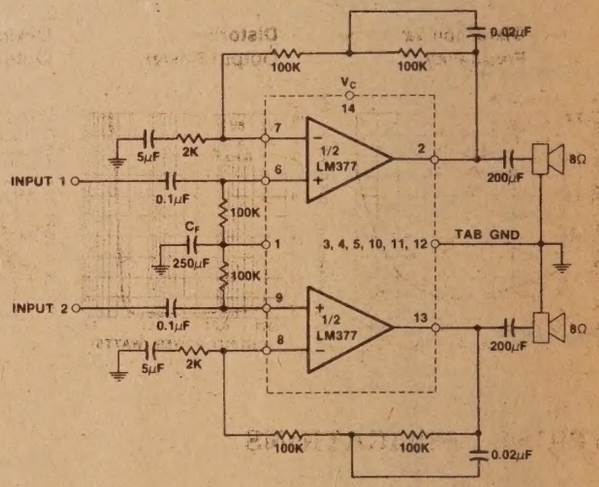
Supply Voltage	26V
Input Voltage	0V-V_{SUPPLY}
Operating Temperature	0°C to +70°C
Storage Temperature	-65°C to +150°C
Junction Temperature	150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS

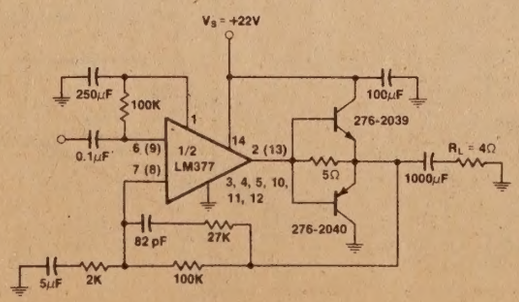
Simple Stereo Amplifier



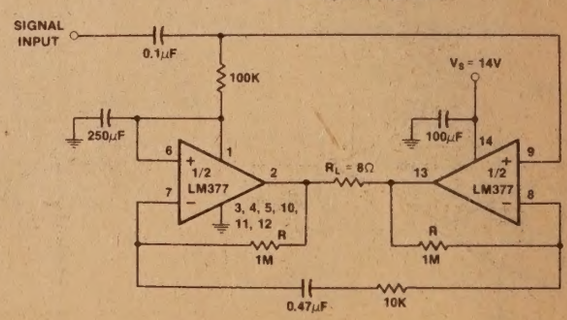
Simple Stereo Amplifier with Bass Boost



10W Per Channel Audio Amplifier



4W Bridge Amplifier



LOW VOLTAGE AUDIO POWER AMPLIFIER

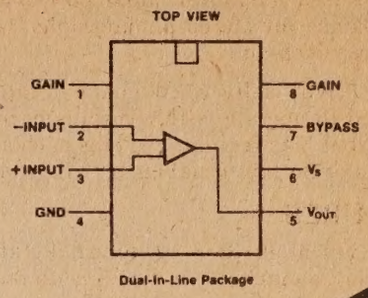
386
276-1731

GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milliwatts when operating from a 6 volt supply, making the 386 ideal for battery operation.

PIN CONNECTION



Dual-In-Line Package

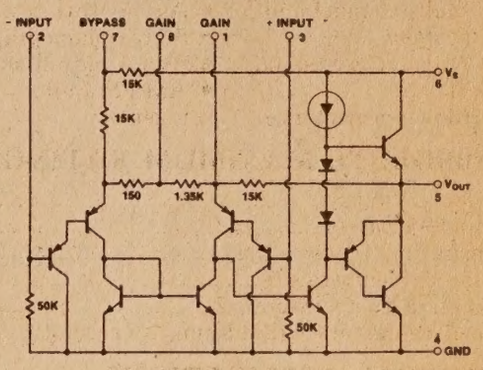
FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 Volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

SCHEMATIC DIAGRAM

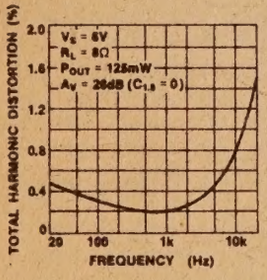


ABSOLUTE MAXIMUM RATINGS

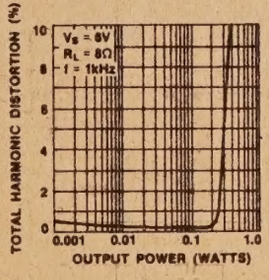
Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	±0.4V
Storage Temperature	-65°C to +150°C
Operating Temperature	0°C to +70°C
Junction Temperature	+150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

TYPICAL CHARACTERISTICS

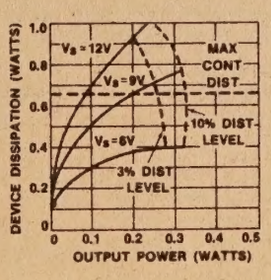
Distortion vs Frequency



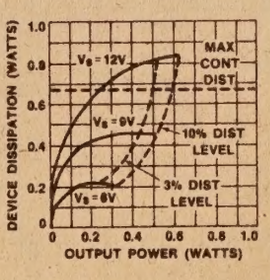
Distortion vs Output Power



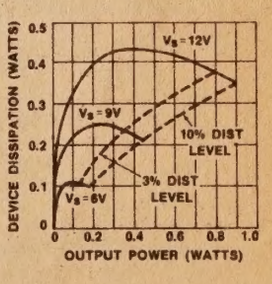
Device Dissipation vs Output Power—4Ω Load



Device Dissipation vs Output Power—8Ω Load

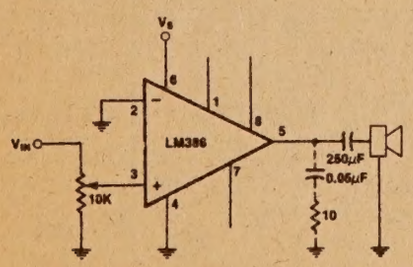


Device Dissipation vs Output Power—16Ω Load

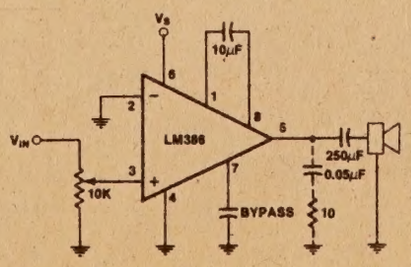


TYPICAL APPLICATIONS

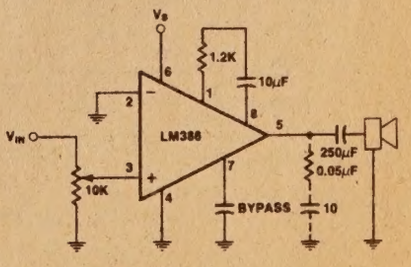
Amplifier with Gain = 20 Minimum Parts



Amplifier with Gain = 200



Amplifier with Gain = 50



Note: If oscillation exists under some load conditions, add 10Ω and 0.05μF series network from pin 5 to ground.

555
278-1723
556
276-1728

TIMER
DUAL TIMER

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits. The 556 is a dual 555. The two timers operate independently of each other sharing only V_{CC} and ground.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

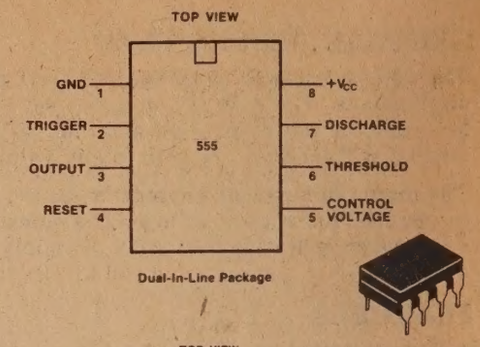
APPLICATIONS

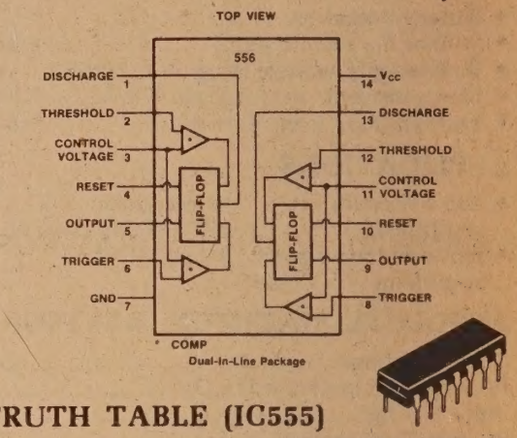
- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage ..... ±16V
Power Dissipation ..... 600 mW
Operating Temperature Range ..... 0°C to +70°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ..... 300°C

PIN CONNECTION





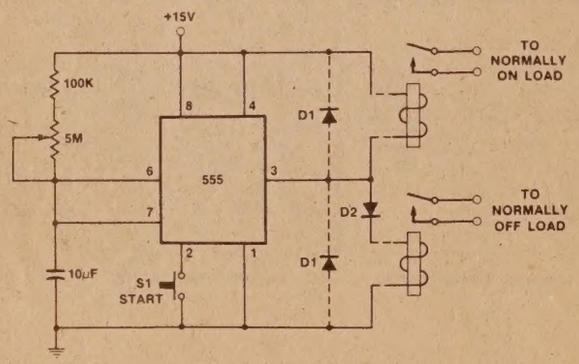
TRUTH TABLE (IC555)

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

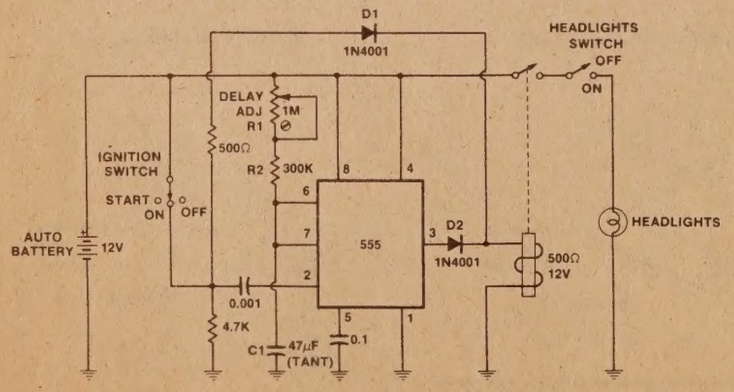
H = High Level L = Low Level X = Don't Care

TYPICAL APPLICATION

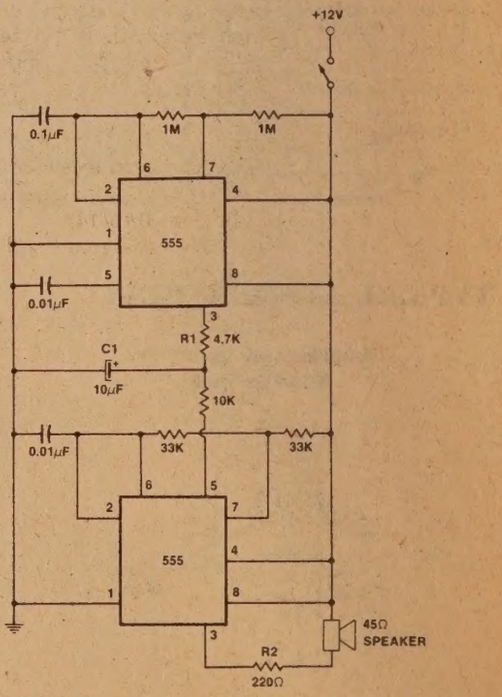
Relay Timer



Automatic Headlight Turn-Off Circuit



Warble Alarm Circuit



VOLTAGE CONTROLLED OSCILLATOR

566
276-1724

GENERAL DESCRIPTION

The 566 is a general purpose voltage controlled oscillator which may be used to generate square and triangular waves, the frequency of which is a very linear function of a control voltage. The frequency is also a function of an external resistor and capacitor.

FEATURES

- Wide supply voltage range: 10 to 24 volts
- Very linear modulation characteristics
- High temperature stability
- Excellent supply voltage rejection
- 10 to 1 frequency range with fixed capacitor
- Frequency programmable by means of current, voltage, resistor or capacitor.

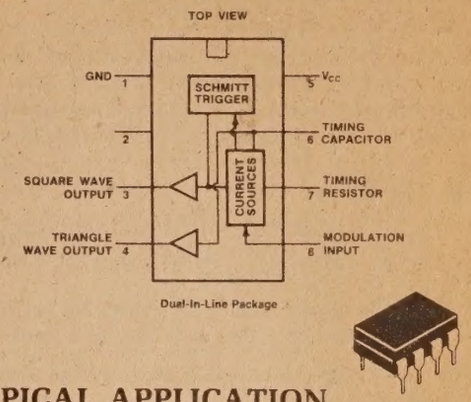
APPLICATIONS

- FM modulation
- Function generation
- Tone generation
- Signal generation
- Frequency shift keying

ABSOLUTE MAXIMUM RATINGS

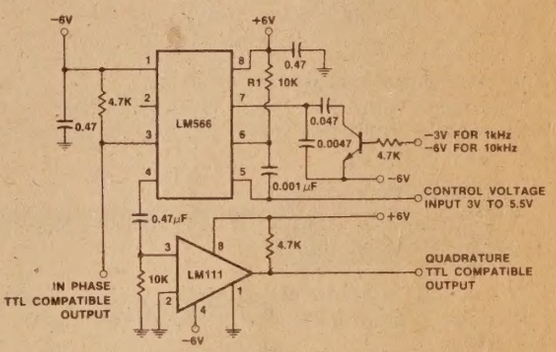
Power Supply Voltage 26V
Power Dissipation ..... 300 mW
Operating Temperature Range ..... 0°C to 70°C
Lead Temperature (Soldering, 10 sec) ..... 300°C

PIN CONNECTION



TYPICAL APPLICATION

1kHz And 10kHz TTL Compatible Voltage Controlled Oscillator



The 566 may be operated from either a single supply as shown in this test circuit, or from a split (±) power supply. When operating from a split supply, the square wave output (pin 4) is TTL compatible (2 mA current sink) with the addition of 4.7 kΩ resistor from pin 3 to ground.
A 0.001 μF capacitor is connected between pins 5 and 6 to prevent parasitic oscillations that may occur during VCO switching.

$f_o = \frac{2(V^+ - V_5)}{R1C1V^+}$ where $2K < R1 < 20K$ and V_5 is voltage between pin 5 and pin 1.

TONE DECODER

567
276-1721

GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the pass-band. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

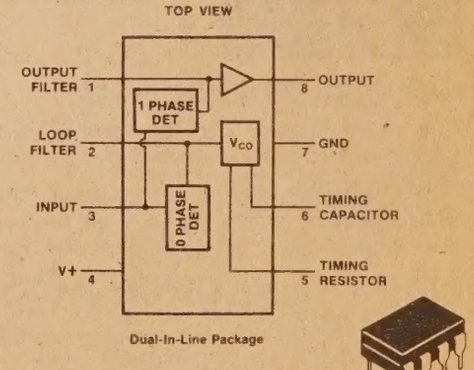
APPLICATIONS

- Touch tone decoding
- Precision oscillator
- Frequency monitoring and control
- Wide band FSK demodulation
- Ultrasonic controls
- Carrier current remote controls
- Communications paging decoders

ABSOLUTE MAXIMUM RATINGS

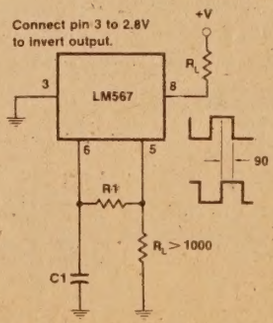
Supply Voltage 9V
Power Dissipation ..... 300 mW
V_8 (Output Voltage) 15V
V_3 (-Voltage At Input) ..... -10V
V_3 (+Voltage At Input) ..... V_8 +0.5V
Storage Temperature Range ..... -65°C to +150°C
Operating Temperature ..... 0°C to +70°C

PIN CONNECTION



TYPICAL APPLICATION

Oscillator with Quadratrature Output



The center frequency of the tone decoder is equal to the free running frequency of the VCO.

This is given by $f_o \cong \frac{1}{R_1 C_1}$

The bandwidth of the filter may be found from the approximation

$BW = 1070\sqrt{\frac{V_i}{f_o C_2}}$ in % of f_o

Where:
V_i = Input voltage (volts rms), $V_i \leq 200$ mV
C_2 = Capacitance at Pin 2 (μF)

723 / 276-1740 VOLTAGE REGULATOR

GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

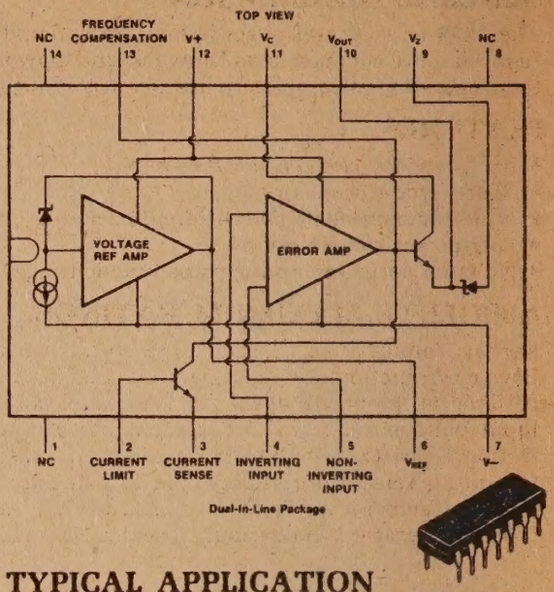
- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V^+ to V^- (50 ms)	50V
Continuous Voltage from V^+ to V^-	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0°C to +70°C
Storage Temperature Range Metal Can	-65°C to +150°C
DIP	-55°C to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

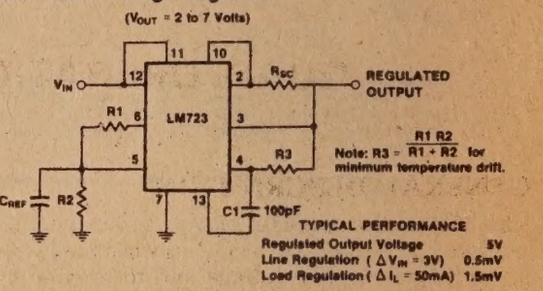
PIN CONNECTION



Dual-In-Line Package

TYPICAL APPLICATION

Basic Low Voltage Regulator



741 / 276-007 / 276-010 OPERATIONAL AMPLIFIER

GENERAL DESCRIPTION

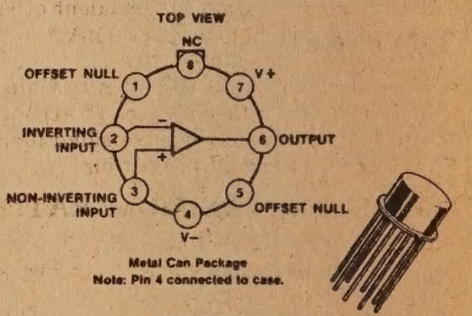
The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

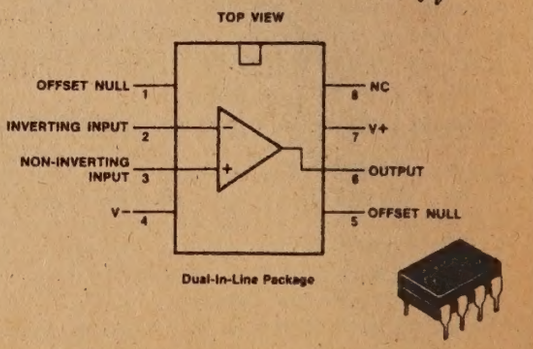
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	500 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



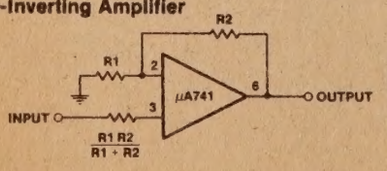
Metal Can Package
Note: Pin 4 connected to case.



Dual-In-Line Package

TYPICAL APPLICATION

Non-Inverting Amplifier



GAIN	R1	R2	B.W.	R_{IN}
10	1K	9K	100kHz	400M
100	100Ω	9.9K	10kHz	280M
1000	100Ω	99.9K	1kHz	80M

DUAL OPERATIONAL AMPLIFIER

1458
276-038

GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent. Features include:

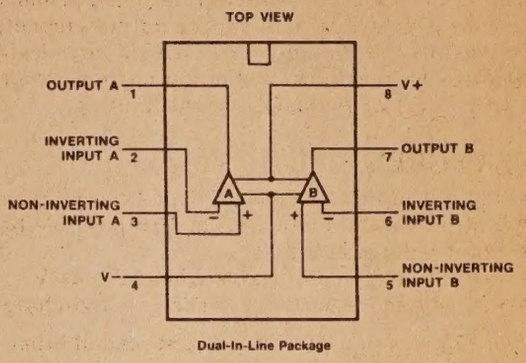
FEATURES

- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	±16V
Power Dissipation	400 mW
Differential Input Voltage	±30V
Input Voltage	±15V
Output Short-Circuit Duration	Indefinite
Operating Temperature Range	0°C to 70°C
Storage Temperature Range	-65°C to 150°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION



QUAD OPERATIONAL NORTON AMPLIFIER

3900
276-1713

GENERAL DESCRIPTION

The 3900 series consists of four independent, dual input, internally compensated amplifiers which were designed specifically to operate off of a single power supply voltage and to provide a large output voltage swing. These amplifiers make use of a current mirror to achieve the non-inverting input function. Application areas include: ac amplifiers, RC active filters, low frequency triangle, squarewave and pulse waveform generation circuits, tachometers and low speed, high voltage digital logic gates.

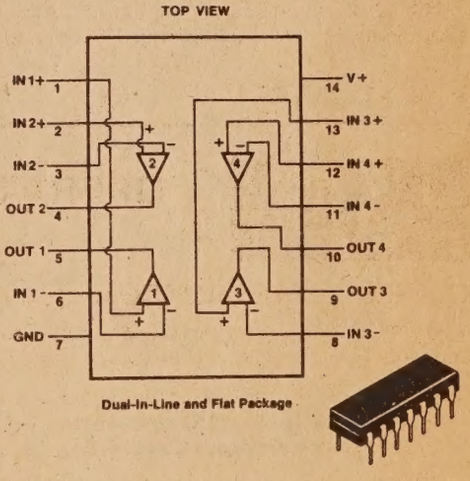
FEATURES

- Wide single supply voltage 4 V_{DC} to 36 V_{DC} range or dual supplies ±2 V_{DC} to ±18 V_{DC}
- Supply current drain independent of supply voltage
- Low input biasing current 30 nA
- High open-loop gain 70 dB
- Wide bandwidth 2.5 MHz (Unity Gain)
- Large output voltage swing (V^+ -1) V_{p-p}
- Internally frequency compensated for unity gain
- Output short-circuit protection

ABSOLUTE MAXIMUM RATINGS

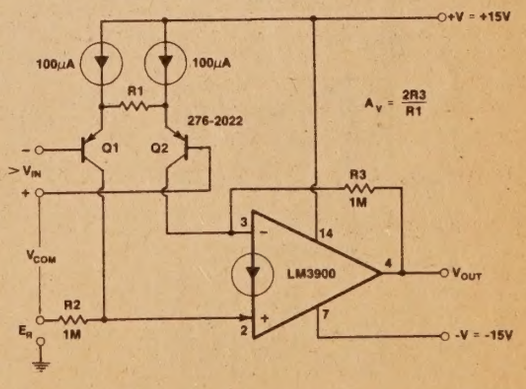
Supply Voltage (Wide Range, Single Supply)	32 V_{DC}
Supply Voltage (Wide Range, Dual Supply)	±16 V_{DC}
Power Dissipation (T_A = 25°C)	
Flat Pack	570 mW
Input Currents, I_{IN}^+ or I_{IN}^-	20 mA_{DC}
Output Short-Circuit Duration—One Amplifier	Continuous
T_A = 25°C (See Application Hints)	
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



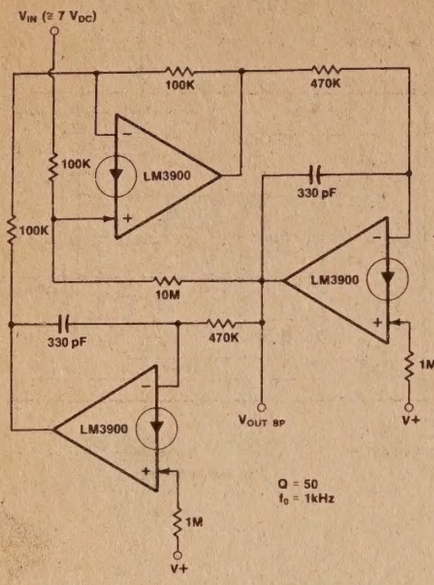
TYPICAL APPLICATIONS

Basic Instrumentation Amplifier

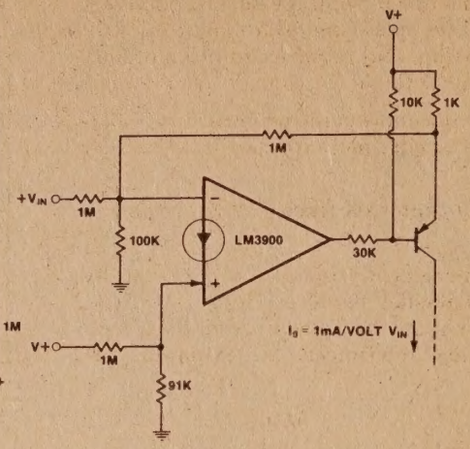


3900 (276-1713) TYPICAL APPLICATIONS (Con't)

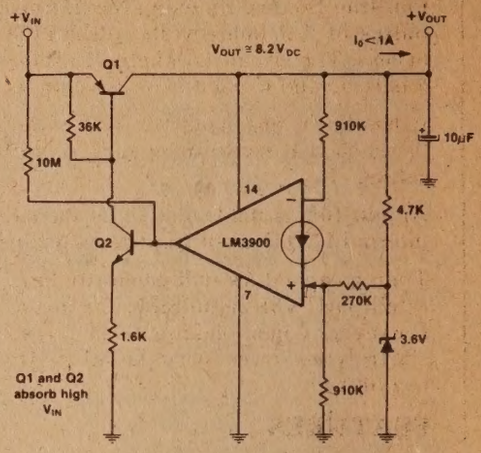
Bi-Quad Active Filter (2nd Degree State-Variable Network)



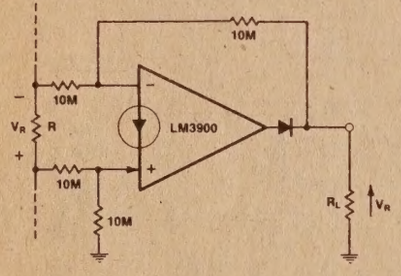
Voltage Controlled Current Source (Transconductance Amplifier)



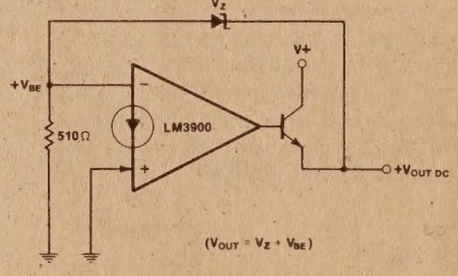
High V_{IN}, Low (V_{IN} -V_{OUT}) Self Regulator



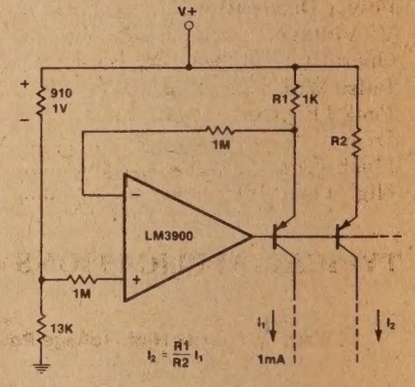
Ground-Referencing a Differential Input Signal



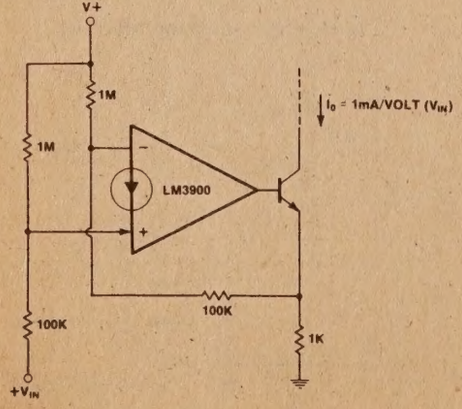
Voltage Regulator



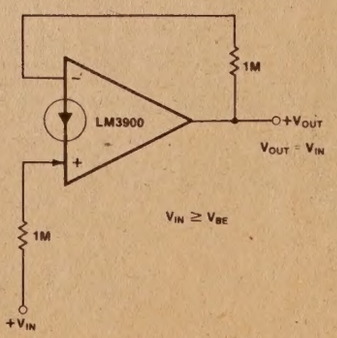
Fixed Current Sources



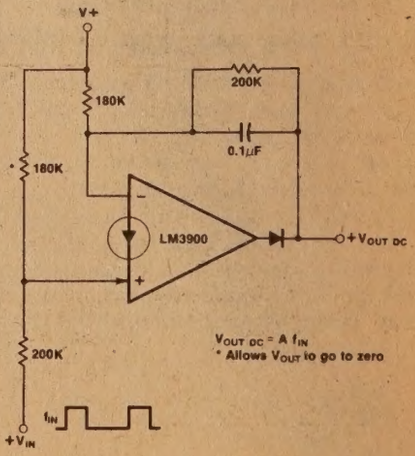
Voltage-Controlled Current Sink (Tranconductance Amplifier)



Buffer Amplifier



Tachometer



LED FLASHER/OSCILLATOR

3909
276-1705

GENERAL DESCRIPTION

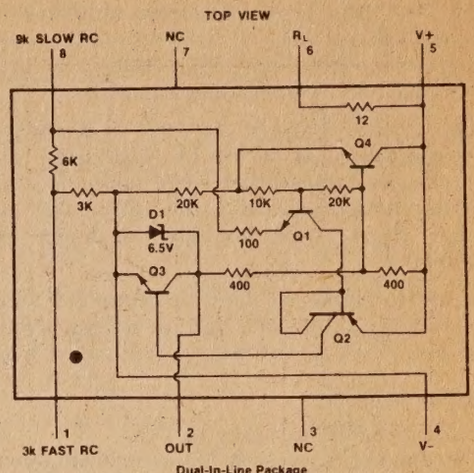
The 3909 is a monolithic oscillator specifically designed to flash Light Emitting Diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example -20% to +100%.

PIN CONNECTION



Dual-In-Line Package

FEATURES

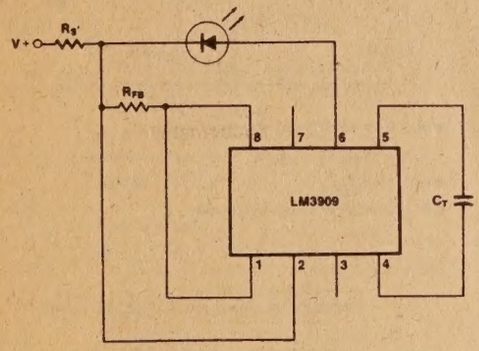
- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful; as an oscillator directly drives an 8Ω speaker

ABSOLUTE MAXIMUM RATINGS

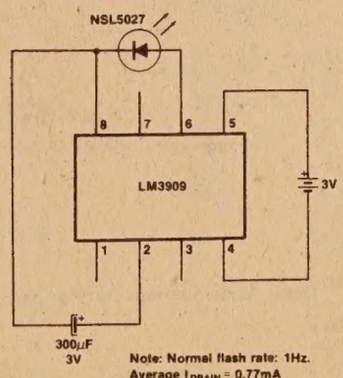
Power Dissipation	500 mW
V^+ Voltage	6.4V
Operating Temperature Range	-25°C to +70°C
Pulse Width	6 ms
Peak LED Current	45 mA
Operating Current	75 mA
Flash Frequency	1.3 Hz
High Flash Frequency	1.1 kHz

TYPICAL APPLICATIONS

Warning Flasher High Voltage Powered

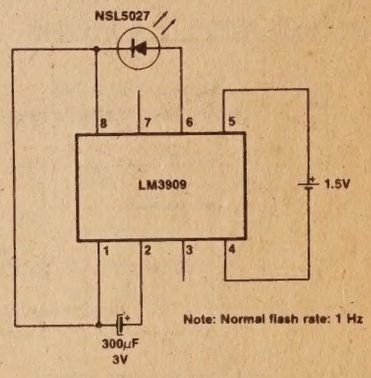


3V Flasher

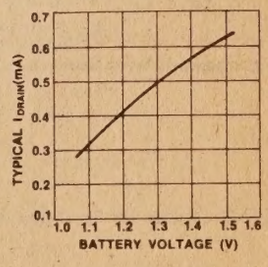


Note: Normal flash rate: 1Hz.
Average I_{DRAIN} = 0.77mA

1.5V Flasher



Note: Normal flash rate: 1 Hz



TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C_T	R_S 1W	R_{FB}	$V+_{RANGE}$
6V	2	400μF	1K	1.5K	5-25V
15V	2	180μF	3.9K	1K	13-50V
100V	1.7	180μF	43K	1K	85-200V

ESTIMATED BATTERY LIFE
(CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or "leak-proof" batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

3911
276-1706

TEMPERATURE CONTROLLER

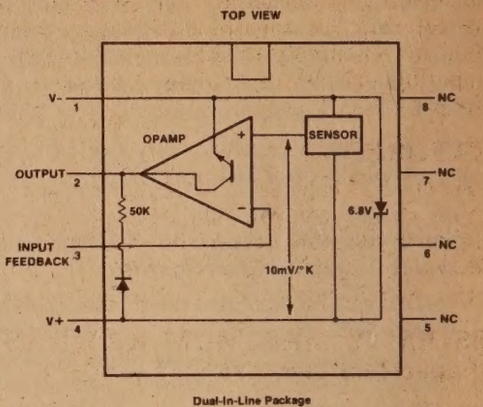
GENERAL DESCRIPTION

The 3911 is a highly accurate temperature measurement and/or control system for use over a -25°C to +85°C temperature range. Fabricated on a single monolithic chip, it includes a temperature sensor, a stable voltage reference and an operational amplifier.

The output voltage of the 3911 is directly proportional to temperature in degrees Kelvin at 10 mV/°K. Using the internal op amp with external resistors any temperature scale factor is easily obtained. By connecting the op amp as a comparator, the output will switch as the temperature transverses the set-point making the device useful as an on-off temperature controller.

An active shunt regulator is connected across the power leads of the 3911 to provide a stable 6.8V voltage reference for the sensing system. This allows the use of any power supply voltage with suitable external resistors.

PIN CONNECTION



Dual-In-Line Package

FEATURES

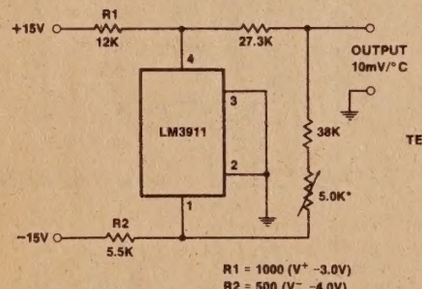
- Uncalibrated accuracy ±10°C
- Internal op amp with frequency compensation
- Linear output of 10 mV/°K (10 mV/°C)
- Can be calibrated in degrees Kelvin, Celsius or Fahrenheit
- Output can drive loads up to 35V

ABSOLUTE MAXIMUM RATINGS

Supply Current (Externally Set)	10 mA
Output Collector Voltage V^{++}	36V
Feedback Input Voltage Range	0V to +7.0V
Output Short Circuit Duration	Indefinite
Operating Temperature Range	-25°C to +85°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL APPLICATIONS

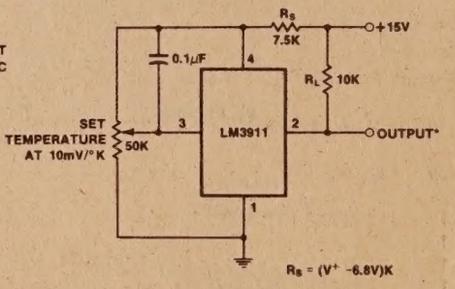
Ground Referred Centigrade Thermometer



R1 = 1000 (V^+ -3.0V)
R2 = 500 (V^- -4.0V)

* Trims out initial zener tolerance. Set output to read °C.

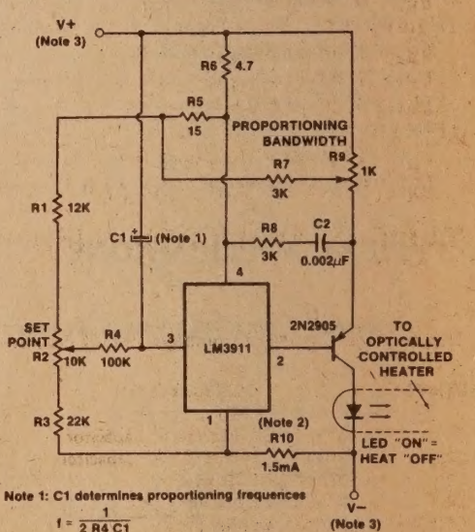
Basic Temperature Controller



$R_S = (V^+ - 6.8V)K$

*Output goes negative on temperature increase.

Proportioning Temperature Controller



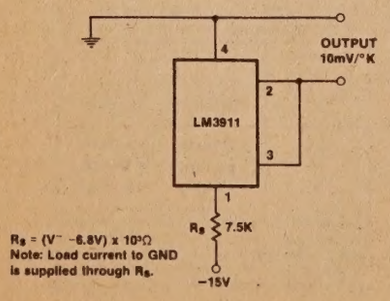
Note 1: C1 determines proportioning frequences

$$f = \frac{1}{2\ R4\ C1}$$

Note 2: $R10 = \frac{V_S\ 7}{0.0015}$

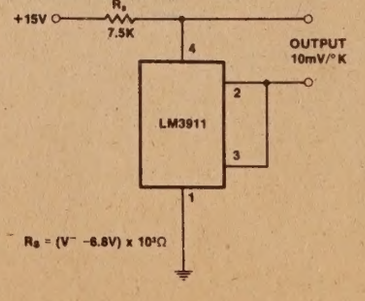
Note 3: Either V- or V+ can be grounded.

Basic Thermometer for Negative Supply



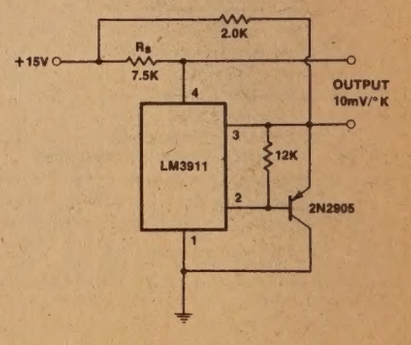
$R_S = (V^- - 6.8V) \times 10^3\Omega$
Note: Load current to GND is supplied through R_S.

Basic Thermometer for Positive Supply



$R_S = (V^- - 6.8V) \times 10^3\Omega$

Increased Gain and Output Drive



MOS/LSI DIGITAL CLOCK/CALENDAR RADIO TIMER

7001
276-1756

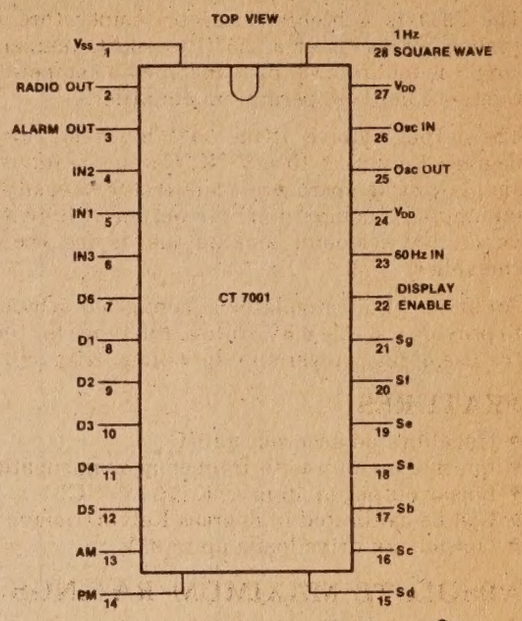
GENERAL DESCRIPTION

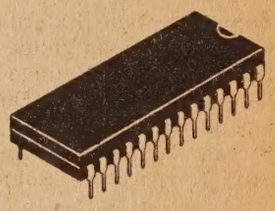
The 7001 is an alternating time (8 second display) and calendar (2 second display) chip. To construct this clock/calendar circuit you need only a single power supply, displays and standard interface components. It is compatible with 4 or 6 digit, 7 segment, common cathode, multiplexed displays.

FEATURES

28/30/31 day calendar, 12/24 hour clock and 24 hour alarm with 10 minute snooze control; 50/60Hz operation; 9 hour 59 minute timer; on chip 60Hz back up; 1Hz output and an inhibit input to wire OR the digit and segment outputs to other chips. The setting of any one counter (time, alarm, calendar, timer) does not affect the contents of any other counter.

PIN CONNECTION





ABSOLUTE MAXIMUM RATINGS
All specifications are at T_A = 25°C

INPUTS:
IN_1, IN_2, IN_3
V_{IN} "1" level ..... +0.3 V
V_{IN} "0" level ..... V_{DD} +0.5 V
60 Hz IN, OSC IN, Display Enable
V_{IN} "1" level ..... +0.3 V
V_{IN} "0" level ..... V_{DD} +0.5 V
All Inputs @ V_{IN} = -17 V ..... 25 µA

OUTPUTS:
Radio Out, Alarm Out
I_{OUT} "1" level @ V_{OUT} = -1.0 V ..... 0.5 mA (MIN)
I_{OUT} "0" level @ V_{OUT} = V_{DD} ..... 25 µA
D_1 to D_6, Sa to Sg, 1 Hz sq. wave, AM, PM
I_{OUT} "1" level @ V_{OUT} = -4.0 V ..... 5.0 mA (MIN)
I_{OUT} "1" level @ V_{OUT} = -1.0 V ..... 1.0 mA (MIN)
I_{OUT} "0" level @ V_{OUT} = -35.0 V ..... 25 µA
OSC Out
I_{OUT} "1" level @ V_{OUT} = -1.0 V ..... 0.4 mA (MIN)
I_{OUT} "0" level @ V_{OUT} = V_{DD} +1.0 V ..... 40.0 µA (MIN)

TYPICAL APPLICATION (See Page 48)

Project Parts List for Schematic on Page 48

This package contains a complete circuit card ready for parts to be added. To construct this Project you'll need the following parts :

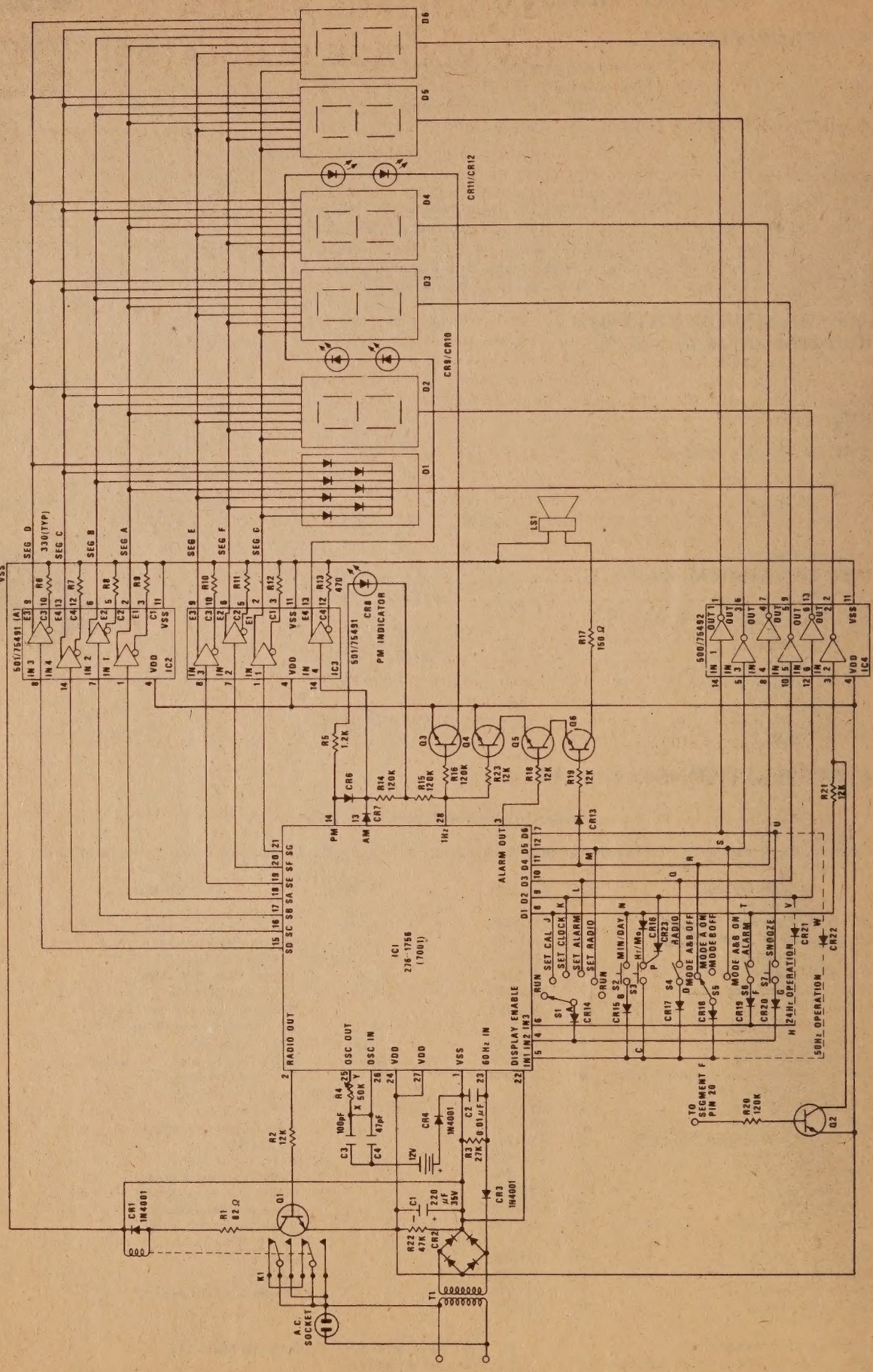
SYMBOL	DESCRIPTION	QTY.	CAT. NO.
C1	220 uF/35V Electrolytic Capacitor	1	272-1029
C2	0.01 uF (10,000 pF) Disc Capacitor	1	272-131
C3	100 pF Disc Capacitor	1	272-123
C4	47 pF Disc Capacitor	1	272-121
CR1, 4	1N4001 Rectifier Diode	2	276-1101
CR2	Bridge Rectifier	1	276-1151
CR3, 6, 7, 13 – 23 1)	1N914 Diode	14	276-1122
CR8 – 12	Subminiature Red LED	5	276-042
D1 – D6	Common Cathode LED 7 Segment Display	6	276-062
IC1	Clock/Calendar/Radio Timer Integrated Circuit 1756	1	276-1756
IC2, 3	Segment Driver Integrated Circuit 501	2	276-1701
IC4	Hex Digit Driver Integrated Circuit 500	1	276-1702
K1	Miniature DPDT Relay	1	275-206
LS1	8 ohm Speaker	1	40-245
Q1, 2, 3	Transistor, 2031	3	276-2031
Q4, 5, 6	Transistor, 2033	3	276-2033
R1	82 ohm ½ Watt Resistor	1	271-000
R2, 18, 19, 21, 23	12K ½ Watt Resistor	5	271-000
R3	27K ½ Watt Resistor	1	271-000
R4 2)	50K Trim Potentiometer	1	271-219
R5	1.2K ½ Watt Resistor	1	271-000

SYMBOL	DESCRIPTION	QTY.	CAT. NO.
R6, 12	330 ohm ½ Watt Resistor	2	271-000
R13	470 ohm ½ Watt Resistor	1	271-000
R14 – 16, 20	120K ½ Watt Resistor	4	271-000
R17	150 ohm ½ Watt Resistor	1	271-000
R22	47K ½ Watt Resistor	1	271-000
S1	2 Pole, 6 Position Rotary Switch	1	275-1386
S2, 3, 7	SPST Miniature Push Button Switch	3	275-1547
S4, 6	SPST Toggle Switch	2	275-324
S5	SPDT Toggle Switch, Neutral Center	1	275-325
T1	12V/300mA Transformer	1	275-1385
3)	Experimenter's Cabinet	1	270-261
	9 V Battery Clip	1	270-325
	8 AA Cell Battery Holder	1	270-387
	AC Socket	1	270-642
4)	¼" (12.7 mm) Spacer	8	270-1393
4)	28 Pin Dual In-Line Socket	1	276-1997
4)	14 Pin Dual In-Line Socket	3	276-1999
	Universal Display Board	1	277-108
	Project Board (PC Board)	1	277-109
	No. 22 Hookup Wire	1	278-1296
	Line Cord	1	278-1255
	AA Battery	8	23-453
	Miscellaneous Hardware		

NOTES: 1) CR21 and CR22 are optional.
2) 10K Resistor is optional for the 50K "Trim Pot".
3) This is a suggested cabinet to use for this Project.
4) These parts are optional.

7001 (276-1756) TYPICAL APPLICATION (Con't)

Digital Clock/Calendar Radio Timer



5 V VOLTAGE REGULATOR
12 V VOLTAGE REGULATOR
15 V VOLTAGE REGULATOR

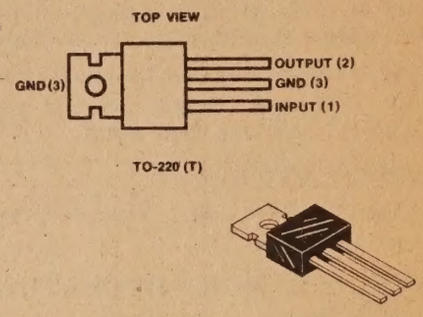
7805 276-1770
7812 276-1771
7815 276-1772

GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

PIN CONNECTION



FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

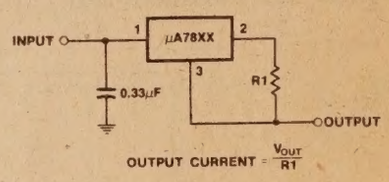
VOLTAGE RANGE

7805 ..... 5V
7812 ..... 12V
7815 ..... 15V

ABSOLUTE MAXIMUM RATINGS

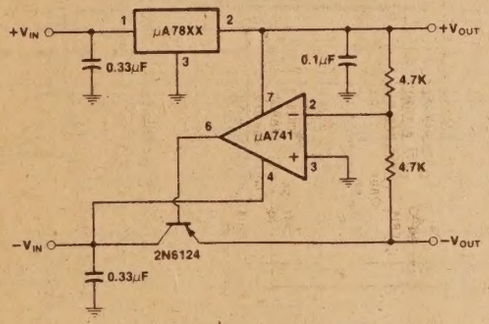
Input Voltage
(Output Voltage Options 5V through 18V) 35V
(Output Voltage Option 24V) 40V
Internal Power Dissipation ..... Internally Limited
Operating Temperature Range ..... 0°C to +70°C
Maximum Junction Temperature ..... 150°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ..... 300°C

Current Regulator

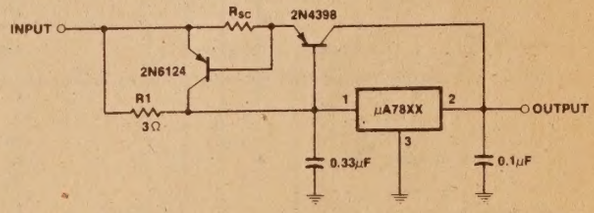


TYPICAL APPLICATIONS

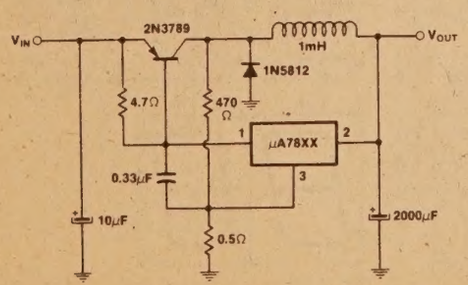
± Tracking Voltage Regulator



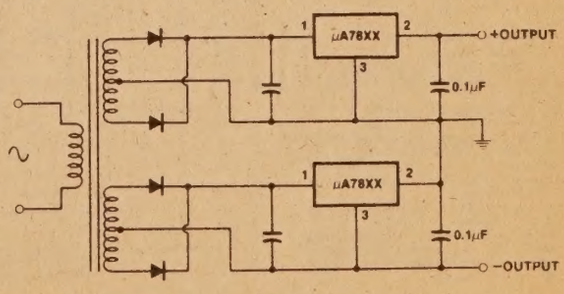
High Output Current, Short Circuit Protected



Switching Regulator



Positive and Negative Regulator



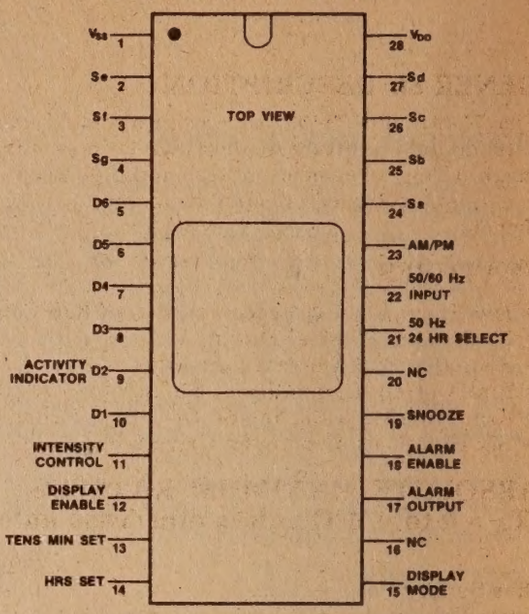
50252 276-1751 MOS/LSI DIGITAL ALARM CLOCK

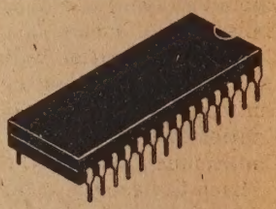
GENERAL DESCRIPTION

This 50252 device is a versatile MOS/LSI clock circuit. To construct a digital alarm clock, you need only a simple power supply, display and standard interface components. It is compatible with 4 or 6 digit, 7 segment multiplexed displays. The scanning oscillator is completely internal and requires no external components. The alarm operates in a 24 hour mode, which allows the alarm to be disabled and immediately reenabled to activate 24 hours later. The snooze inhibits an activated alarm for 10 minutes. The alarm output is a tone, thus eliminating an external oscillator.

CAUTION These devices are extremely susceptible to damage from static charge. We recommend that you handle them by the ends. DO NOT TOUCH THE PINS.

PIN CONNECTION





APPLICATIONS

- AM/PM and circuit activity signal
- Intensity control
- 12 hr/60 Hz or 24 hr./ 50Hz capability

RECOMMENDED OPERATING CONDITIONS FREE AIR:

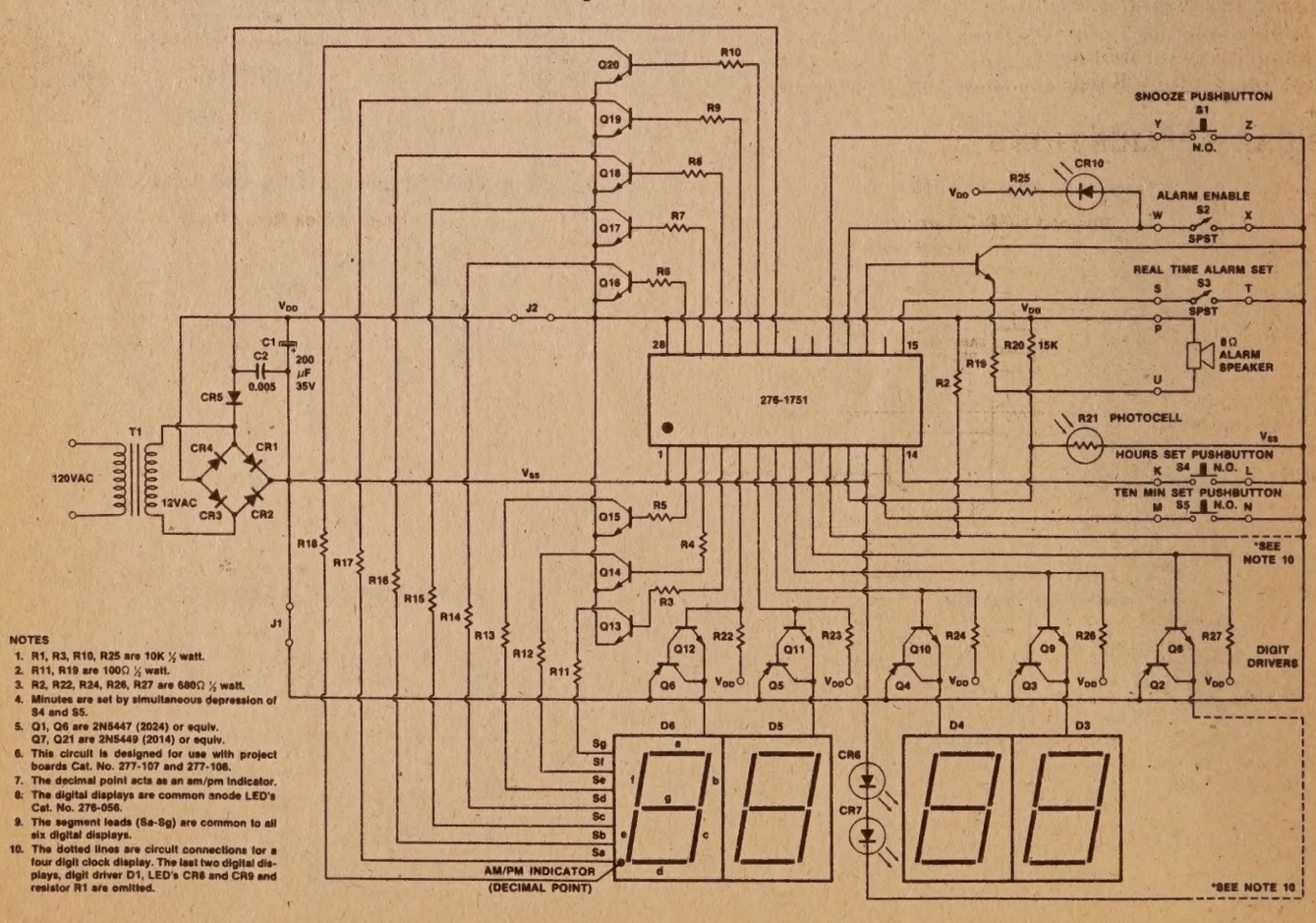
Operating Voltage V_{DD}
Relative to V_{SS} ..... -18 V to -9 V
Input Logic Levels
"1" Logic Level ..... V_{SS} -0.3 V to V_{SS} +0.3V
"0" Logic Level ..... -18 V to V_{DD} +0.5 V

ABSOLUTE MAXIMUM RATINGS

Voltage on any Pin Relative to V_{SS} ..... plus 0.3 V to -18 V
Output Voltage Breakdown on any
Output Relative to V_{SS} ..... -18 V @10 µA
Operating Free-Air Temperature Range ..... 0°C to 55°C

TYPICAL APPLICATION

Digital Alarm Clock



NOTES
1. R1, R3, R10, R25 are 10K ½ watt.
2. R11, R19 are 100Ω ½ watt.
3. R2, R22, R24, R26, R27 are 680Ω ½ watt.
4. Minutes are set by simultaneous depression of S4 and S5.
5. Q1, Q6 are 2N5447 (2024) or equiv. Q7, Q21 are 2N5449 (2014) or equiv.
6. This circuit is designed for use with project boards Cat. No. 277-107 and 277-108.
7. The decimal point acts as an am/pm indicator.
8. The digital displays are common anode LED's Cat. No. 276-056.
9. The segment leads (Sa-Sg) are common to all six digital displays.
10. The dotted lines are circuit connections for a four digit clock display. The last two digital displays, digit driver D1, LED's CR8 and CR9 and resistor R1 are omitted.

QUAD LED SEGMENT DRIVER
HEX LED DIGIT DRIVER

75491 276-1701
75492 276-1702

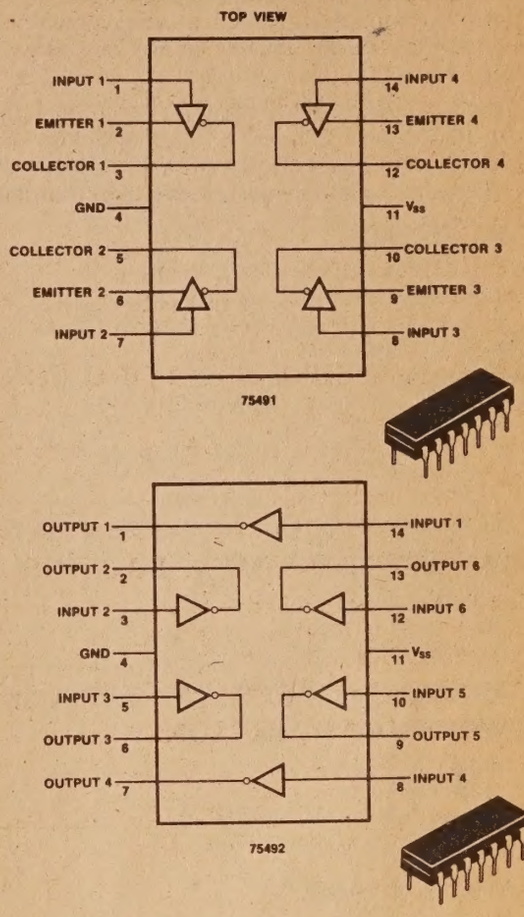
GENERAL DESCRIPTION

The 75491 and 75492 are designed to interface MOS logic to common cathode light-emitting diode readouts in serially addressed multi-digit displays. Using a segment address and digit scan LED drive method in a time multiplexing system results in a minimizing of the number of required drivers.

FEATURES

- Low Input Current Requirement for MOS Compatibility
- Low Standby Power Drain
- Source or Sink Current Capability of 50 mA for 75491
- Sink Current Capability of 250 mA for 75492
- Four High-Gain Darlington Drivers in a Single Package—75491
- Six High-Gain Darlington Drivers in a Single Package—75492

PIN CONNECTION



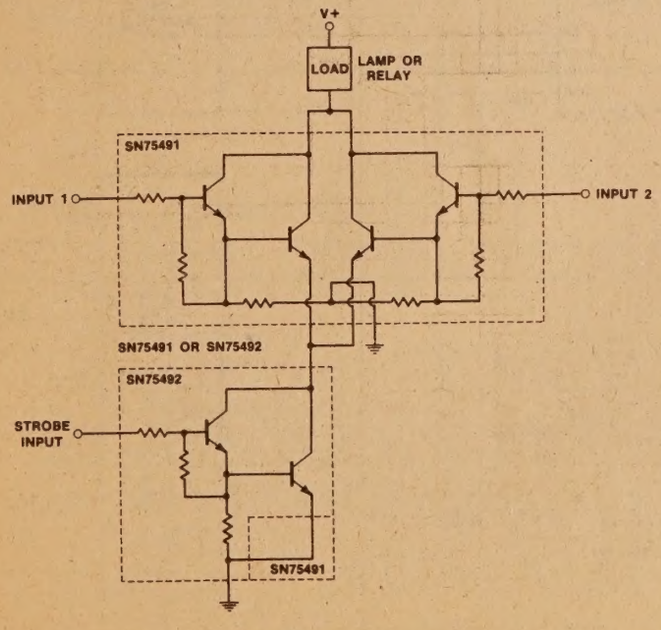
ABSOLUTE MAXIMUM RATINGS
(T_A = 0 to +70°C unless otherwise noted.)

	75491	75492
Bias Supply Voltage	10 Vdc	10 Vdc
Input Voltage	-5.0 to V_{SS} Vdc	-5.0 to V_{SS} Vdc
Collector Voltage	10 Vdc	10 Vdc
Collector-to-Emitter Voltage	10 Vdc	—Vdc
Collector-to-Input Voltage	10 Vdc	10 Vdc
Emitter Voltage ($V_{IN} \geq 5.0$ Vdc)	10 Vdc	—Vdc
Emitter-to-Input Voltage	5.0 Vdc	—Vdc
Continuous Collector Current		
(Each Collector)	50 mA	250 mA
(All Collectors)	200 mA	600 mA

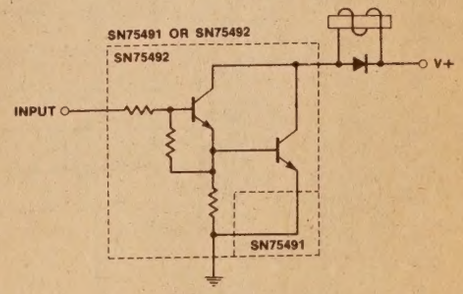
Power Dissipation (Package Limitation)
Ceramic and Plastic Dual In-Line Packages ..... 830 mW
Derate above T_A = +25°C ..... 6.6 mW/°C
Operating Temperature Range ..... 0 to +70°C
Storage Temperature Range ..... -65+ to +150°C

TYPICAL APPLICATIONS

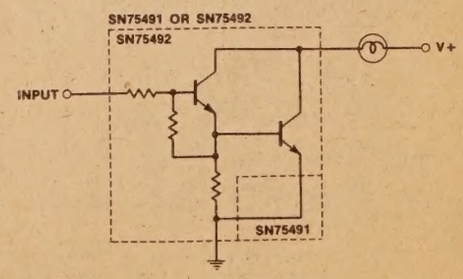
Strobed NOR Driver



Quad or Hex Relay Driver



Quad or Hex Lamp Driver



21L02
276-2501

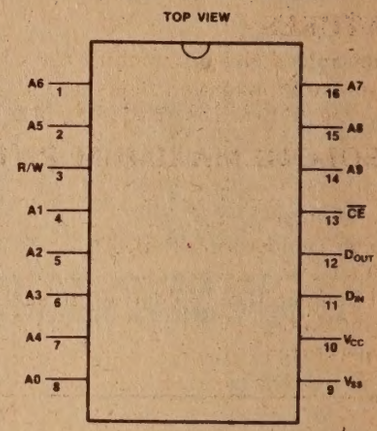
1024-BIT STATIC RANDOM ACCESS MEMORY

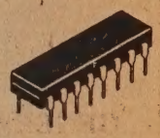
GENERAL DESCRIPTION

The 21L02 is a 1024-bit random access memory fabricated with high-density, high-reliability, N-channel, silicon-gate technology. For ease of use, the device operates from a single power supply, is directly compatible with TTL and DTL, and requires no clocks or refreshing because of static operation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit.

PIN CONNECTION





FEATURES

- 1024 Word by 1 Bit Organization
- Access Time = 450 nA or less
- Low Power Dissipation—150mW Typical
- Static Operation
- Single +5-Volt Supply
- Direct TTL/DTL Compatibility
- Three-State Output
- Chip Enable for Memory Expansion
- Cost Effective Data Storage

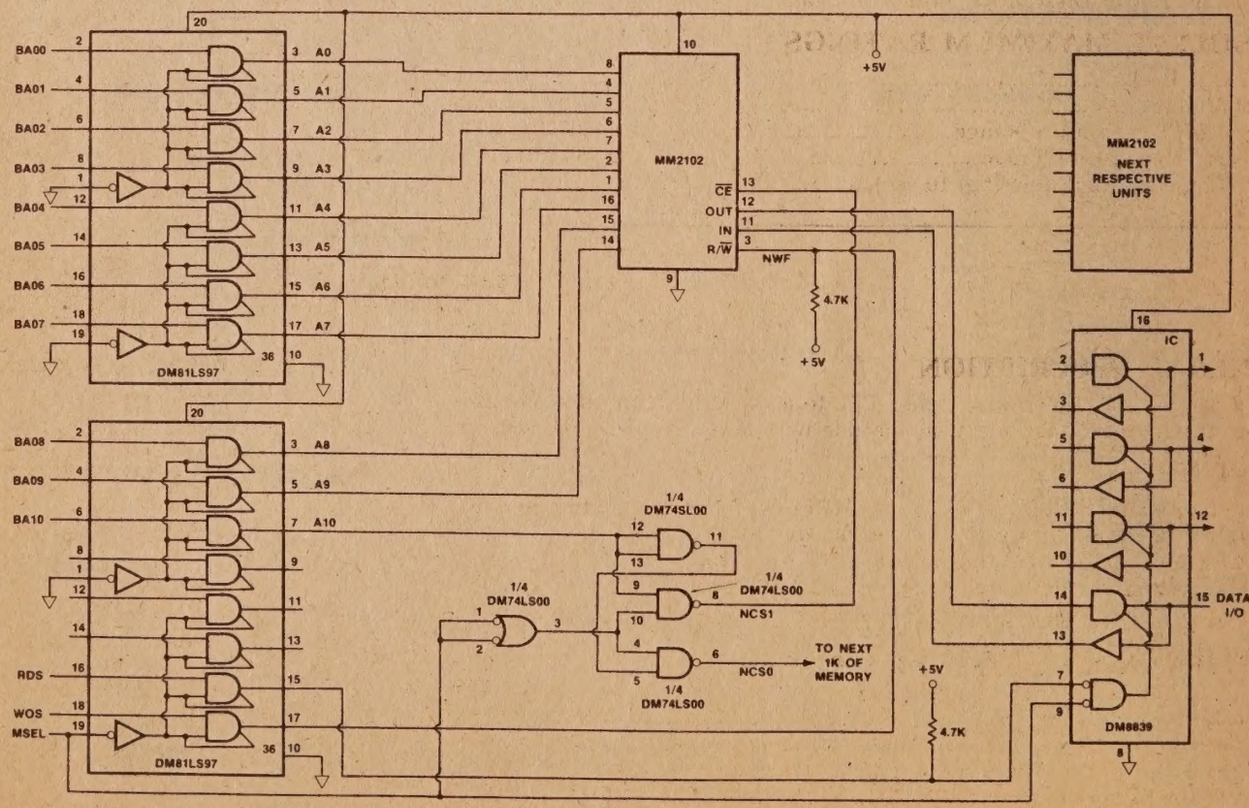
RECOMMENDED DC OPERATING CONDITIONS (Referenced to V_{SS})

Supply Voltage	4.75 - 5.25 Vdc (MIN-MAX)
Input Low Voltage	-0.3 - 0.65 Vdc (MIN-MAX)
Input High Voltage	2.2 - 5.25 Vdc (MIN-MAX)

ABSOLUTE MAXIMUM RATINGS (Referenced to V_{SS})

Supply Voltage	-0.3 to plus 7.0 Vdc
Input Voltage	-0.3 to plus 7.0 Vdc
Operating Temperature Range	0°C to plus 70°C
Storage Temperature Range	-55°C to plus 150°C

LOGIC DIAGRAM

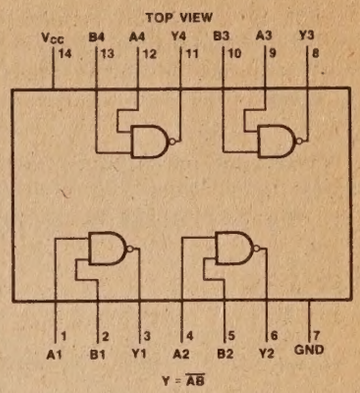


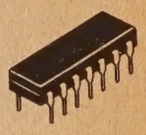
QUADRUPLE TWO-INPUT NAND GATE

7400
276-1801

GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.





FEATURES

- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Average Propagation Delay 13 ns
- Fan Out 10
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC} 5.25V
Input Voltage 5.5V
Storage Temperature Range ..... -65°C to +150°C
Fan-Out 10
Lead Temperature (Soldering, 10 sec) ..... 300°C
Supply Voltage (V_{CC}) ..... 4.75—5.25V
Temperature (T_A) ..... 0°C to 70°C

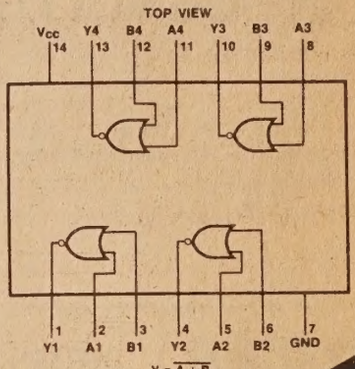
QUAD TWO-INPUT NOR GATE

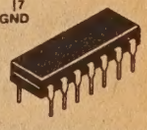
7402
276-1811

GENERAL DESCRIPTION

The 7402 is a quad 2-input NOR gate utilizing TTL (Transistor-Transistor Logic) to achieve high speed at nominal power dissipation.

PIN CONNECTION





FEATURES

- Input Clamping Diodes
- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Fan-out 10
- Allowable Power Supply Variation 4.75V to 5.25V
- Average Propagation Delay 12 ns (with 50 pF)
- Average Power Dissipation 14 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC} 5.25V
Input Voltage 5.5V
Operating Temperature Range ..... 0°C to 70°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ..... 300°C

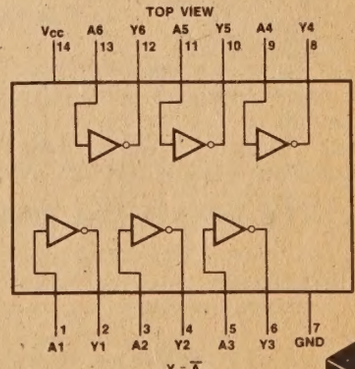
HEX INVERTER

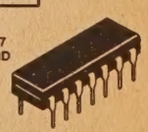
7404
276-1802

GENERAL DESCRIPTION

The 7404 is a hex inverter utilizing TTL to achieve high speed at nominal power dissipation. It is totally compatible with other Series 74 devices.

PIN CONNECTION





FEATURES

- Input clamping diodes
- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Fan-out 10
- Allowable Power Supply Variation 4.75V to 5.25V
- Average Propagation Delay 12 ns (with 50 pF)
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC} 5.25V
Input Voltage 5.5V
Operating Temperature Range ..... 0°C to 70°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (soldering, 10 sec) ..... 300°C

7406
276-1821

HEX INVERTER BUFFER/DRIVER

GENERAL DESCRIPTION

The TTL hex inverter buffer/driver is fully compatible for use with TTL and DTL logic circuits. Each inverter features high-voltage, open-collector outputs (30 volts minimum breakdown.)

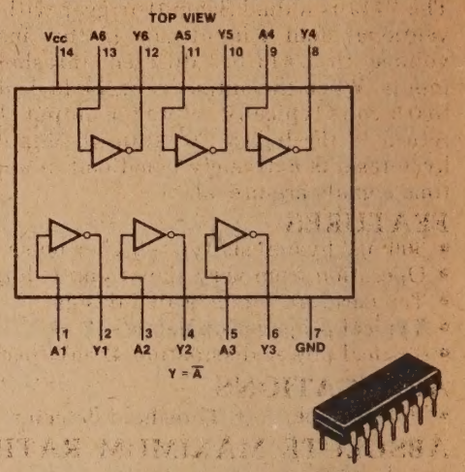
FEATURES

- Input clamp diodes
- 15 ns typical propagation delay time
- High voltage open-collector outputs 30V
- High sink current capability 40 mA

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	7.0V
Input Voltage	5.5V
Output Voltage	30V
Storage Temperature Range	-65°C to +150°C
Lead Temperature, (Soldering, 10 Sec)	300°C
Supply Voltage	4.75—5.25V
Temperature (T_A)	0—70°C
Output Sink Current	40 mA

PIN CONNECTION



7408
276-1822

QUAD TWO-INPUT AND GATE

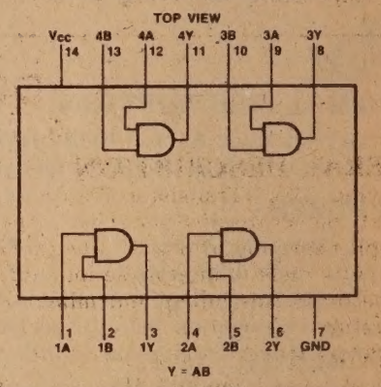
GENERAL DESCRIPTION

7408 provides the non-inverting AND function in the popular quad 2-input pin configuration.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	7V
Input Voltage	5.5V
Output Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 sec)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

PIN CONNECTION



7410
276-1807

TRIPLE THREE-INPUT NAND GATE

GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

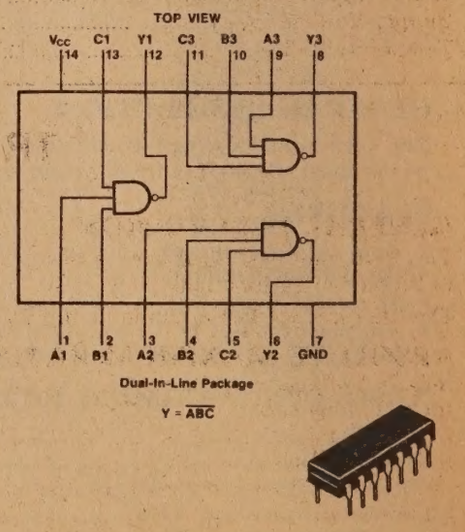
FEATURES

- Typical Noise Immunity 1V
- Guaranteed Noise Immunity 400 mV
- Fan Out 10
- Average Propagation Delay 13 ns
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC}	7.0V
Input Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Fan-Out	10
Lead Temperature (Soldering, 10 sec)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

PIN CONNECTION



DUAL SCHMITT-TRIGGER

7413
276-1815

GENERAL DESCRIPTION

The 7413 is a dual Schmitt-trigger with input gating. It differs from a conventional dual 4-input gate in that instead of having a single threshold voltage, the 7413 has different thresholds for positive-and negative-going inputs. When the output is in the logical "0" state an input must be lowered to 0.9 volts typically before the output changes state. Conversely in order to return to the logical "0" state the input must rise to 1.7V typically. This hysteresis is extremely beneficial in applications where slow rise and fall time signals are prevalent.

FEATURES

- 800 mV hysteresis typ.—higher noise immunity
- Operation from very slow ramp voltages
- Temperature compensated design
- Typical propagation delay—17 ns
- Typical power dissipation 42 mW per function

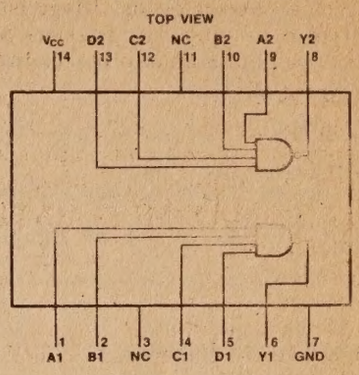
APPLICATIONS

- Pulse shaper
- Threshold detector

ABSOLUTE MAXIMUM RATINGS

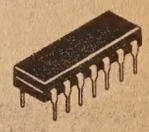
Supply Voltage	5.25V
Input Voltage	5.5V
Output Voltage	5.5V
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 sec)	300°C

PIN CONNECTION



Dual-In-Line and Flat Package

$Y = \overline{ABCD}$



DUAL FOUR-INPUT NAND GATE

7420
276-1809

GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

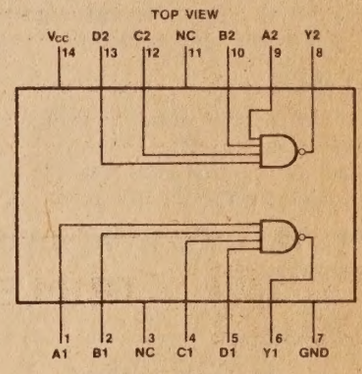
FEATURES

- Typical Noise Immunity 1V
- Fan Out 10
- Guaranteed Noise Immunity 400 mV
- Average Propagation Delay 13 ns
- Average Power Dissipation 10 mW per gate

ABSOLUTE MAXIMUM RATINGS

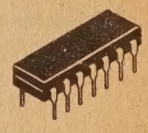
V_{CC}	5.25V
Input Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Fan-Out	10
Lead Temperature (Soldering, 10 sec)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

PIN CONNECTION



Dual-In-Line and Flat Package

$Y = \overline{ABCD}$



TRIPLE THREE-INPUT NOR GATE

7427
276-1823

GENERAL DESCRIPTION

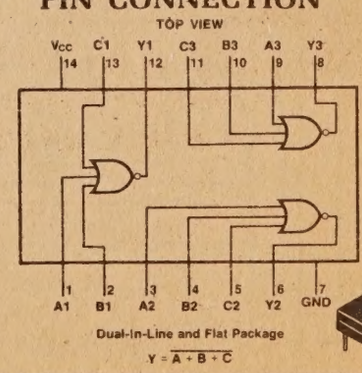
The NOR gate described here is designed to provide additional versatility to the line of 74 functions.

The 7427 has neither expandable inputs nor Strobe.

ABSOLUTE MAXIMUM RATINGS

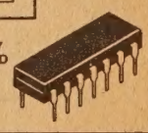
Supply Voltage	5.25V
Input Voltage	5.5V
Output Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

PIN CONNECTION



Dual-In-Line and Flat Package

$Y = \overline{A + B + C}$



7432 276-1824 QUAD TWO-INPUT OR GATE

GENERAL DESCRIPTION

The 7432 is a quad 2-input OR gate utilizing TTL (Transistor-Transistor Logic) to provide the basic functions used in the implementation of digital integrated circuit systems. The device is completely compatible with all other Series 74 devices.

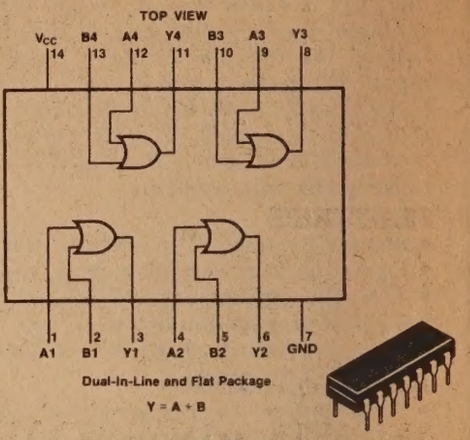
FEATURES

- Popular digital logic block
- Saves inverter function when sign inversion is not needed

ABSOLUTE MAXIMUM RATINGS

Supply Voltage 5.25V
Input Voltage 5.5V
Output Voltage 5.5V
Operating Temperature Range ..... 0°C to 70°C
Storage Temperature Range ..... -65°C to 150°C
Lead Temperature (Soldering, 10 sec) ..... 300°C

PIN CONNECTION



7441 276-1804 BCD TO DECIMAL DECODER/DRIVER

GENERAL DESCRIPTION

The 7441 is monolithic binary-coded-decimal to decimal decoder. The BCD number to be decoded is applied to the four input lines; and the unique output corresponding to the decimal equivalent of the input number falls to a logical 0 level. Outputs are designed to drive gas-filled-readout tubes but are also able to operate with other low current lamps and relays.

An over-range feature provides that if binary numbers between 10 and 15 are applied to the input the least significant bit of these numbers (0 through 5) will be decoded on the output.

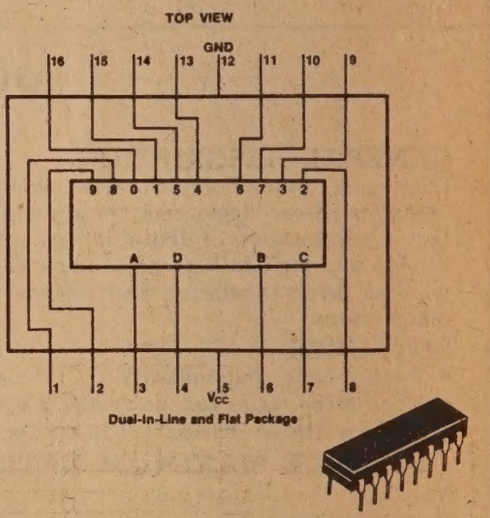
FEATURES

- Drive cold-cathode, numeric indicator tubes directly
- Fully decoded inputs
- Low leakage current 1.8μ A @ 50V
- Low power dissipation 105 mW typical

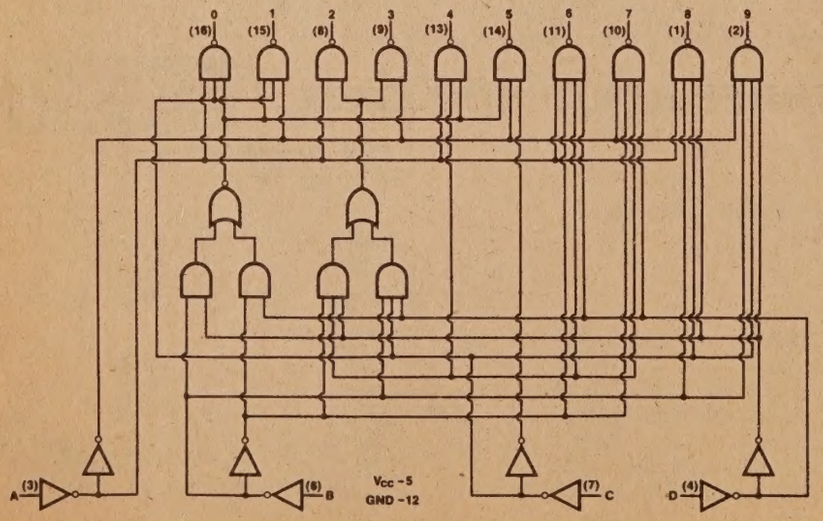
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (V_{CC}) 5.25V
Output Voltage 70V
Input Voltage 5.5V
Operating Temperature Range ..... 0°C to +70°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ..... 300°C

PIN CONNECTION



LOGIC DIAGRAM



TRUTH TABLE

INPUT				LOW OUTPUT
D	C	B	A	
0	0	0	0	0
0	0	0	1	1
0	0	1	0	2
0	0	1	1	3
0	1	0	0	4
0	1	0	1	5
0	1	1	0	6
0	1	1	1	7
1	0	0	0	8
1	0	0	1	9
(OVER RANGE)				
1	0	1	0	0
1	0	1	1	1
1	1	0	0	2
1	1	0	1	3
1	1	1	0	4
1	1	1	1	5

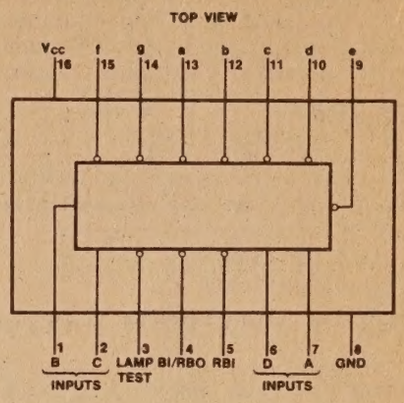
BCD TO SEVEN-SEGMENT DECODER/DRIVER

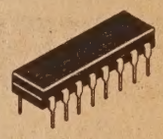
7447
276-1805

GENERAL DESCRIPTION

This versatile series of 7-segment display drivers fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) Light Emitting Diodes (LED) or lamp displays. Each device fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The 7447 outputs withstand 15V at a maximum leakage current of 250μA.

PIN CONNECTION





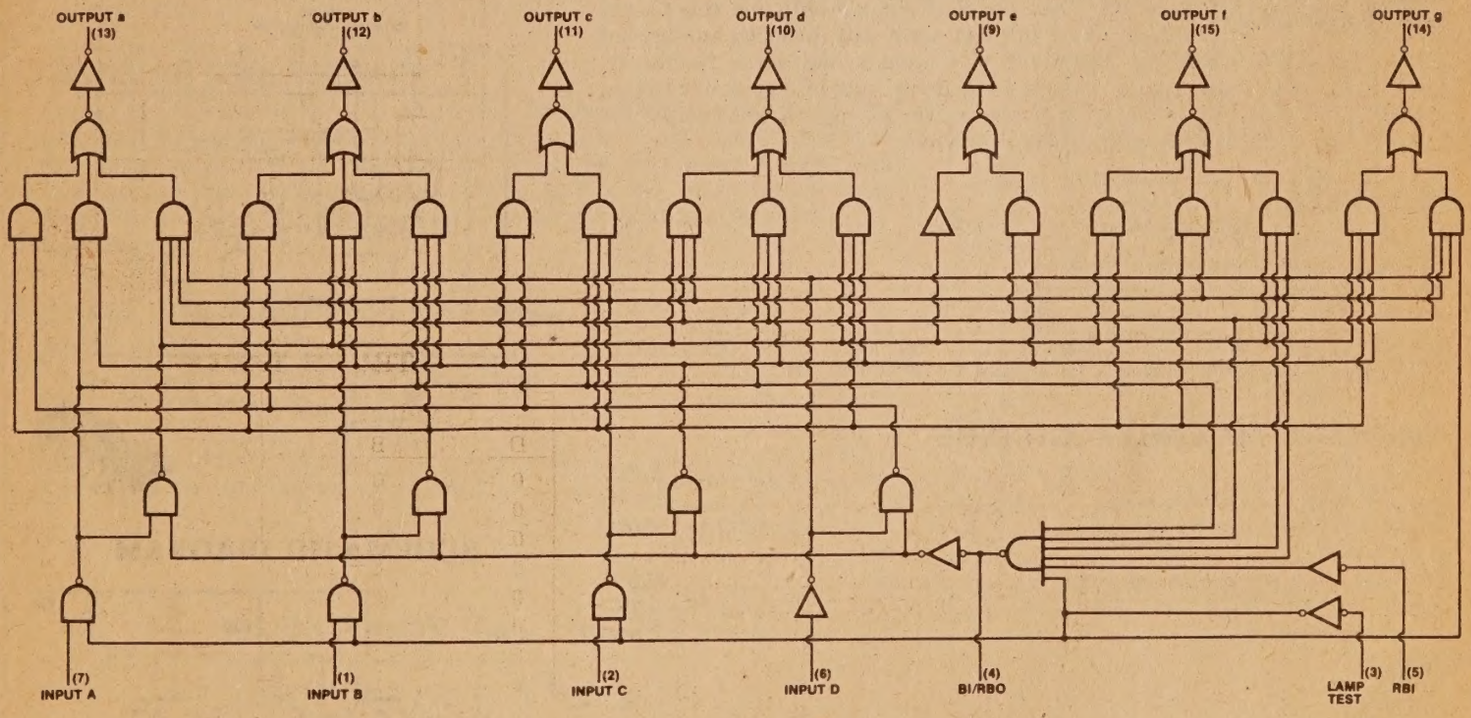
FEATURES

- Lamp-test input
- Leading/trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75-5.25 volts
Continuous voltage at outputs a-g	Max. 5.5 volts
Logic 1 input voltage	Min. 2 volts
Logic 0 input voltage	Max. 0.8 volts
Logic 0 output voltage	Max. 0.4 volts
Logic 1 output voltage at a-g	Min. 2.4 volts
Logic 1 output voltage at BI/RBO	Min. 2.4 volts

LOGIC DIAGRAM



7448 276-1816 BCD TO SEVEN-SEGMENT DECODER/DRIVERS

GENERAL DESCRIPTION

This versatile series of 7-segment display drivers fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) Light Emitting Diodes (LED) or lamp displays. Each device fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply.

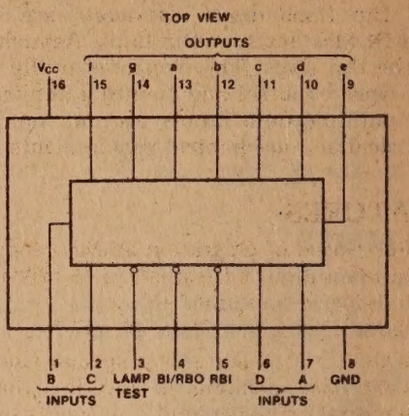
FEATURES

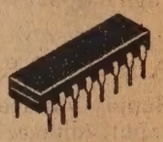
- Lamp-test input
- Leading/trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC}	4.75-5.25 volts
Continuous voltage at outputs a-g	Max. 5.5 volts
Logic 1 input voltage	Min. 2 volts
Logic 0 input voltage	Max. 0.8 volts
Logic 0 output voltage	Max. 0.4 volts
Logic 1 output voltage at a-g	Min. 2.4 volts
Logic 1 output voltage at BI/RBO	Min. 2.4 volts

PIN CONNECTION





7451 276-1825 DUAL TWO-WIDE TWO-INPUT AND-OR-INVERT GATE

GENERAL DESCRIPTION

The devices described in this data sheet employ TTL to achieve high speed at moderate power dissipation. They are consolidated onto one sheet since they perform the AND-OR-INVERT function with only differing numbers of AND inputs and OR terms. Characteristics include high noise immunity, low output impedance, good capacitance drive capability, and minimal variation in switching time with temperature. The gates are compatible with and interchangeable with Series 74 devices.

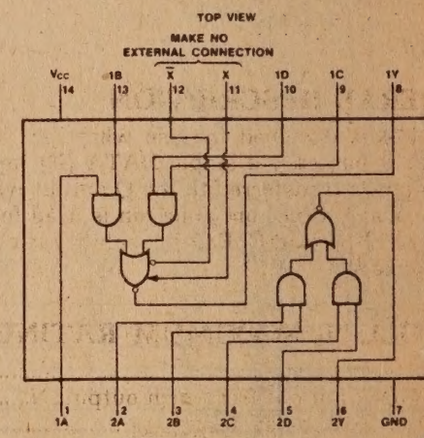
FEATURES

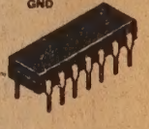
- Input Clamping Diodes
- Typical Noise Immunity 1 Volt
- Guaranteed Noise Immunity 400 mV
- Fan-out 10
- Average Propagation Delay 13 ns
- Average Power Dissipation 14 mW/gate

ABSOLUTE MAXIMUM RATINGS

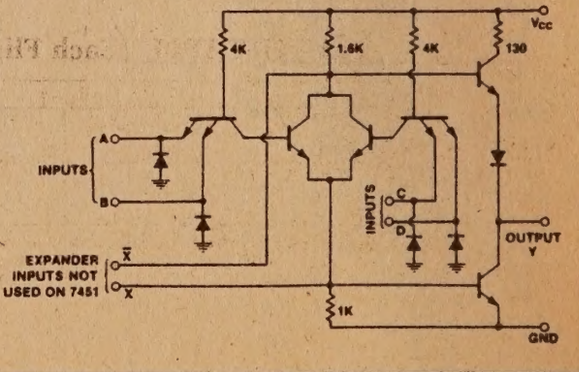
V_{CC}	5.25V
Input Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Fan-Out	10
Lead Temperature (Soldering, 10 sec)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

PIN CONNECTION





SCHEMATIC DIAGRAM



DUAL JK MASTER/SLAVE FLIP FLOP

7473
276-1803

GENERAL DESCRIPTION

The flip flops described herein are TTL (Transistor-Transistor Logic) dual JK Master/Slave flip flops. Asynchronous CLEAR inputs are provided on the flip flops. The device is totally monolithic and designed for use in high speed control and counting applications, where economy is required, and multiple data inputs are not required. These devices meet all of the electrical and mechanical requirements of the equivalent 74 device.

FEATURES

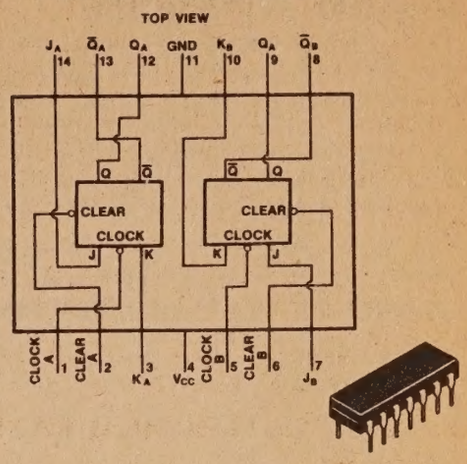
- High Speed of Operation 25 MHz toggling
- Optimum Power Dissipation 45 mW/ff
- High Noise Immunity 1V
- Guaranteed Clock Skew 15 ns

This device also features a special clock line clamp to reduce ringing and prevent false clocking. In addition, the usual speed-power efficiency and high output drive-capability normally gained with TTL circuits are retained.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage 5.25V
Input Voltage 5.5V
Fan Out 10
Storage Temperature Range ..... -65°C to +150°C
Operating Temperature Range ..... 0°C to +70°C
Lead Temperature (soldering 10 sec) ..... 300°C

PIN CONNECTION



TRUTH TABLE (Each Flip-Flop)

t_n		t_{n+1}
J	K	Q
0	0	Q_n
0	1	0
1	0	1
1	1	$\overline{Q}_n$

t_n = bit time before clock pulse.
t_{n+1} = bit time after clock pulse.

DUAL D FLIP FLOP

7474
276-1818

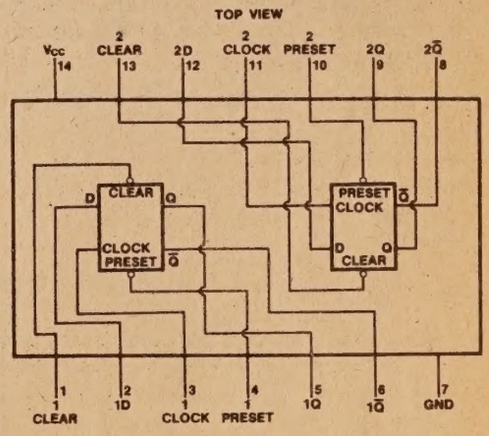
GENERAL DESCRIPTION

The 7474 is designed for use where the flexibility of 2 inputs is not required. It has only a single DATA (D) input. The logical level applied to this input is transferred to the Q output when the clock pulse voltage rises to a logical 1. Since only one pin is used for data entry, fully asynchronous (both PRESET and CLEAR) capability can be provided in a 14 pin dual-in-line package.

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC} ..... 4.75—5.25V (MIN-NOM)
Normalized fan-out from each output, N ..... 10 (MAX)
Width of clock pulse, t_p (clock) ..... 30 ns (MIN)
Width of preset pulse, t_p (preset) ..... 30 ns (MIN)
Width of clear pulse, t_p (clear) ..... 30 ns (MIN)
Operating free-air temperature range, T_A ..... 0—70°C (MIN-MAX)

PIN CONNECTION



POSITIVE LOGIC:
Low input to preset sets Q to logical 1
Low input to clear sets Q to logical 0
Preset and clear are independent of clock

TRUTH TABLE (Each Flip-Flop)

t_n	t_{n+1}	
INPUT D	OUTPUT Q	OUTPUT $\overline{Q}$
0	0	1
1	1	0

NOTES: 1. t_n = bit time before clock pulse.
2. t_{n+1} = bit time after clock pulse.

7475 276-1806 QUAD LATCH

GENERAL DESCRIPTION

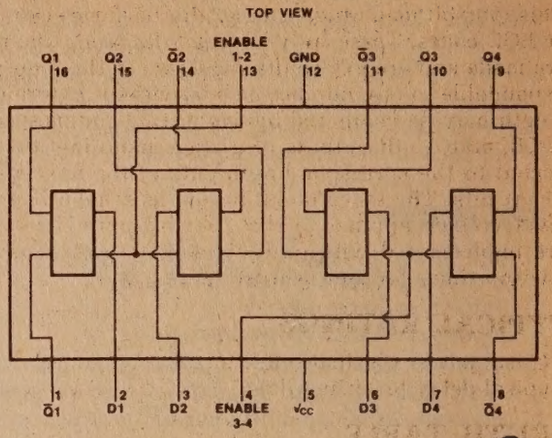
This latch is ideally suited for use as temporary storage for binary information between processing units and input/output or indicator units. Information present at a data (D) input is transferred to the Q output when the enable (G) is high, and the Q output will follow the data input as long as the enable remains high. When the enable goes low, the information (that was present at the data input at the time the transition occurred) is retained at the Q output until the enable is permitted to go high.

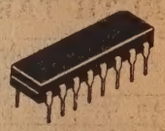
The 7475, features complementary Q and $\overline{Q}$ outputs from a 4-bit latch, and are available in 16-pin packages.

ABSOLUTE MAXIMUM RATINGS

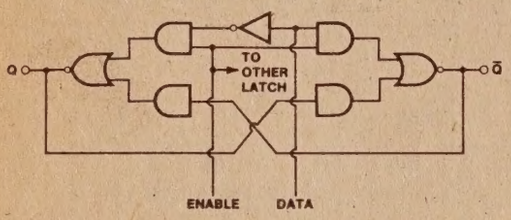
Supply voltage V_{CC} ..... 4.75—5.25V
Logic input 1 voltage ..... 2.0V Min.
Logic input 0 voltage ..... 0.8V Max.
Logic output 1 voltage ..... 2.4V Min.
Logic output 0 voltage ..... 0.4V Max.

PIN CONNECTION





LOGIC DIAGRAM (Each Latch)



TRUTH TABLE (Each Latch)

INPUTS		OUTPUTS	
D	G	Q	$\overline{Q}$
L	H	L	H
H	H	H	L
X	L	Q_0	$\overline{Q}_0$

H = High Level, L = Low Level, X = Don't Care
Q_0 = The Level of Q Before the High-to-Low Transition of G

7476 276-1813 DUAL JK MASTER/SLAVE FLIP-FLOP

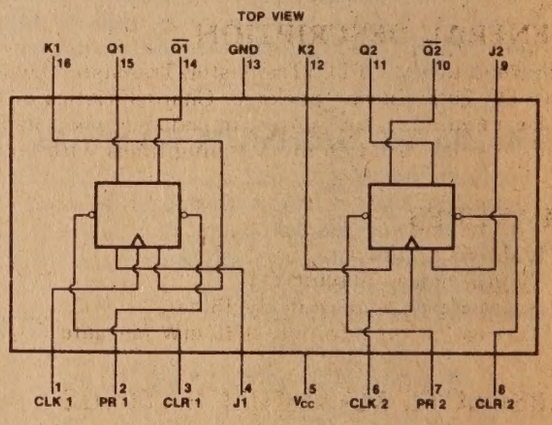
GENERAL DESCRIPTION

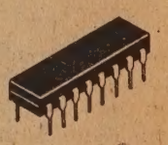
Incorporates separate presets, clears, and clocks. Clock pulse controls inputs to master section, and also regulates coupling between master and slave sections.

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC} ..... 4.75—5.25V
Logic input 1 voltage ..... 2.0V Min.
Logic input 0 voltage ..... 0.8V Max.
Logic output 1 voltage ..... 2.4V Min.
Logic output 0 voltage ..... 0.4V Max.

PIN CONNECTION





TRUTH TABLE

INPUTS					OUTPUTS	
PR	CLR	CLK	J	K	Q	$\overline{Q}$
L	H	X	X	X	H	L
H	L	X	X	X	L	H
L	L	X	X	X	H*	H*
H	H	⊓	L	L	Q0	$\overline{Q}$0
H	H	⊓	H	L	H	L
H	H	⊓	L	H	L	H
H	H	⊓	H	H	TOGGLE	

Notes: ⊓ = high-level pulse; data inputs should be held constant while clock is high; data is transferred to output on the falling edge of the pulse.
Q0 = the level of Q before the indicated input conditions were established
TOGGLE: Each output changes to the complement of its previous level on each active transition (pulse) of the clock.
*This configuration is nonstable; that is, it will not persist when preset and clear inputs return to their inactive (high) level.

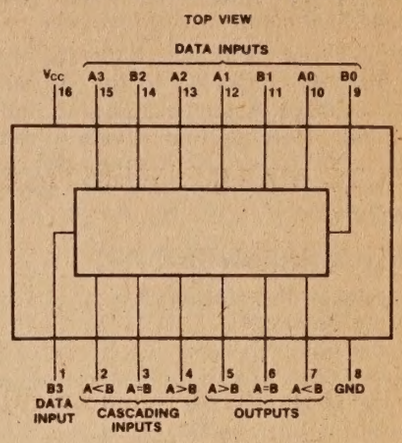
FOUR-BIT MAGNITUDE COMPARATOR

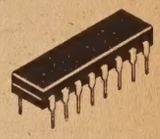
7485
276-1826

GENERAL DESCRIPTION

This four-bit magnitude comparator performs comparison of straight binary or BCD codes. Three fully-decoded decisions about two, 4-bit words (A, B) are made and are externally available at three outputs. This device is fully expandable to any number of bits without external gates. Words of greater length may be compared by connecting comparators in cascade. The A>B, A<B, and A = B outputs of a stage handling less-significant bits are connected to the corresponding inputs of the next stage handling more-significant bits. The stage handling the least-significant bits must have a high-level voltage applied to the A = B input. The cascading paths of the 85 are implemented with only a two-gate-level delay to reduce overall comparison times for long words.

PIN CONNECTION





TYPICAL RATINGS

Typical power dissipation ..... 275 mW
Typical delay (4-bit words) ..... 23 ns

TRUTH TABLE

COMPARING INPUTS				CASCADING INPUTS			OUTPUTS		
A3, B3	A2, B2	A1, B1	A0, B0	A>B	A<B	A = B	A>B	A<B	A = B
A3>B3	X	X	X	X	X	X	H	L	L
A3<B3	X	X	X	X	X	X	L	H	L
A3 = B3	A2>B2	X	X	X	X	X	H	L	L
A3 = B3	A2<B2	X	X	X	X	X	L	H	L
A3 = B2	A2 = B2	A1>B1	X	X	X	X	H	L	L
A3 = B3	A2 = B2	A1<B1	X	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0>B0	X	X	X	H	L	L
A3 = B3	A2 = B2	A1 = B1	A0<B0	X	X	X	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	H	L	L	H	L	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	H	L	L	H	L
A3 = B3	A2 = B2	A1 = B1	A0 = B0	L	L	H	L	L	H

H = High Level, L = Low Level, X = Don't Care

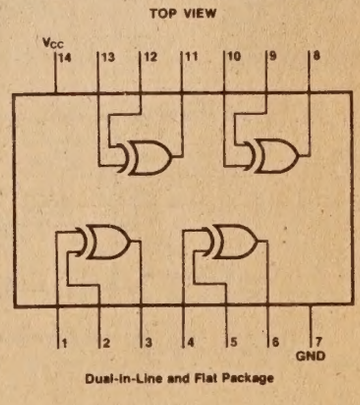
QUAD EXCLUSIVE-OR GATE

7486
276-1827

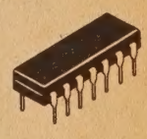
GENERAL DESCRIPTION

The 7486 utilizes TTL (Transistor-Transistor Logic) to provide four exclusive-OR gates in one package. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

PIN CONNECTION



Dual-In-Line and Flat Package



FEATURES

- Input clamp diodes
- Typical noise immunity 1V
- Average propagation delay 15 ns
- Average power dissipation 40 mW per gate

ABSOLUTE MAXIMUM RATINGS

V_{CC} 5.25V
Input Voltage 5.5V
Operating Temperature Range ..... 0°C to 70°C
Storage Temperature Range ..... -65°C to +150°C
Fan Out 10
Lead Temperature (Soldering, 10 sec) ..... 300°C

7490
276-1808

DIVIDE BY 2/5, BCD COUNTER

GENERAL DESCRIPTION

This monolithic counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

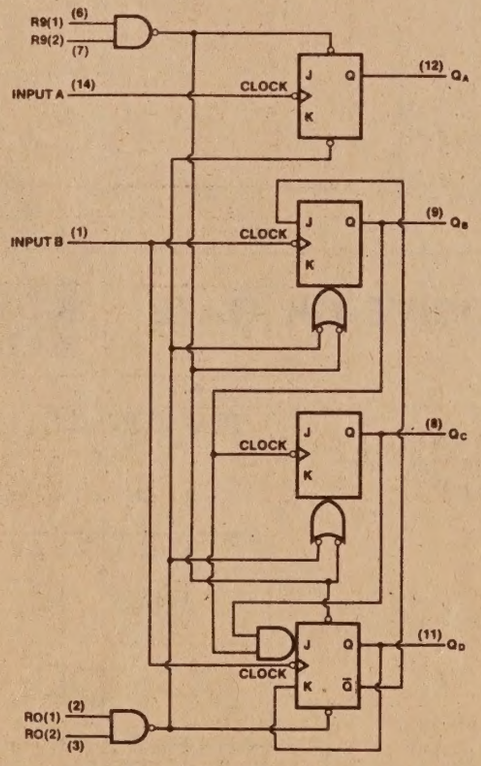
This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length (decade, divide-by-twelve, or four-bit binary, the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A.

TYPICAL RATINGS

Typical power dissipation ..... 145 mW
Count frequency ..... 42 MHz
High Level Input Voltage ..... (Min) 2V
Low Level Input Voltage ..... (Max) 0.8V
High Level Input Current 800µA
Low Level Output Current ..... (Max) 16 mA

LOGIC DIAGRAM



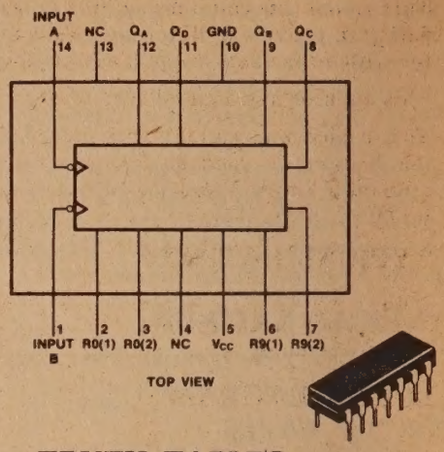
The J and K inputs shown without connection are for reference only and are functionally at a high level.

Notes:

(A) Output Q_A is connected to input B for BCD count.

(B) Output Q_D is connected to input A for bi-quinary count.

PIN CONNECTION



TRUTH TABLES

RESET/COUNT TRUTH TABLE

RESET INPUTS				OUTPUT			
R0(1)	R0(2)	R9(1)	R9(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE
(See Note A)

COUNT	OUTPUT			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

BI-QUINARY (5-2)
(See Note B)

COUNT	OUTPUT			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

DECADE, DIVIDE BY 12, AND BINARY COUNTER

7492
276-1819

GENERAL DESCRIPTION

This monolithic counter contains four master-slave flip flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide by six.

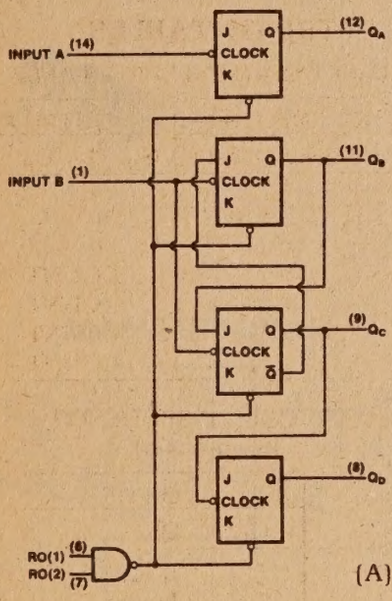
This counter has a gated zero reset.

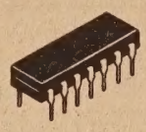
To use maximum count length (decade, divide-by-twelve, or four-bit binary), the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table.

TYPICAL RATINGS

Supply voltage 5.25V
Typical power dissipation ..... 130 mW
Count frequency ..... 42 MHz

LOGIC DIAGRAM

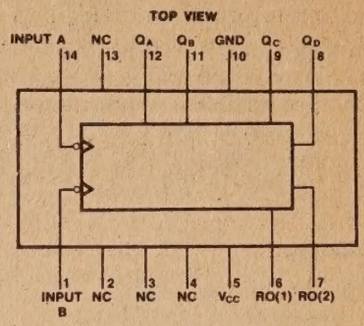




The J and K inputs shown without connection are for reference only and are functionally at a high level.

(A) Output Q_A is connected to input B.

PIN CONNECTION



TRUTH TABLES

COUNT SEQUENCE (See Note A)

COUNT	OUTPUT			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	H	L	L	L
7	H	L	L	H
8	H	L	H	L
9	H	L	H	H
10	H	H	L	L
11	H	H	L	H

RESET/COUNT TRUTH TABLE

RESET INPUTS		OUTPUT			
R0(1)	R0(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	L	L	L
L	X	COUNT			
X	L	COUNT			

DC TRIGGERING FROM GATED LOW-LEVEL-ACTIVE (A) AND HIGH-LEVEL-ACTIVE (B) INPUTS

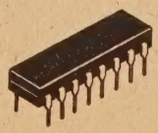
74123
276-1817

GENERAL DESCRIPTION

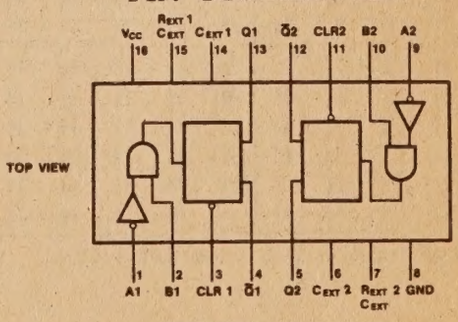
Designed for dc triggering from gated low-level-active (A) and high-level-active (B) inputs. Provides overriding direct clear inputs and controls pulse width, e.g. lengthens pulse by retriggering or shortens by clearing.

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC} ..... 4.75-5.25 volts
Logic 1 input voltage ..... Min. 2 volts
Logic 0 input voltage ..... Max. 0.88 volts
Logic 1 output voltage ..... Min. 2.4 volts
Logic 0 output voltage ..... Max. 0.4 volts
A or B inputs high ..... Min. 40 ns
A or B inputs low ..... Min. 40 ns
Clear low ..... Min. 40 ns



PIN CONNECTION



TRUTH TABLE

INPUTS			OUTPUTS	
A	B	CLR	Q	$\overline{Q}$
H	X	H	L	H
X	L	H	L	H
L	↑	H	⎍	⎎
↓	H	H	⎍	⎎
X	X	L	L	H

74145 276-1828 BCD/DECIMAL DECODERS/DRIVERS

GENERAL DESCRIPTION

These BCD-to-decimal decoders/drivers consist of eight inverters and ten, four-input NAND gates. The inverters are connected in pairs to make BCD input data available for decoding by the NAND gates. Full decoding of BCD input logic ensures that all outputs remain off for all invalid (10-15) binary input conditions. These decoders feature high-performance, NPN output transistors designed for use as indicator/relay drivers, or as open-collector logic-circuit drivers. The high-breakdown output transistors are compatible for interfacing with most MOS integrated circuits.

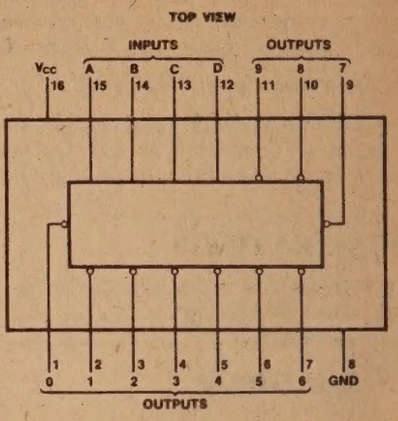
FEATURES

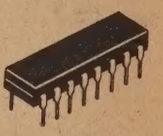
- Full decoding of input logic
- 80 mA sink-current capability
- All outputs are off for invalid BCD input conditions

ABSOLUTE MAXIMUM RATINGS

Supply Voltage 5.25V
Input Voltage 5.5V
Output Voltage 15V
Operating Temperature Range ..... 0°C to +70°C
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ..... 300°C
Supply Voltage (V_{CC}) ..... 4.75—5.25V

PIN CONNECTION



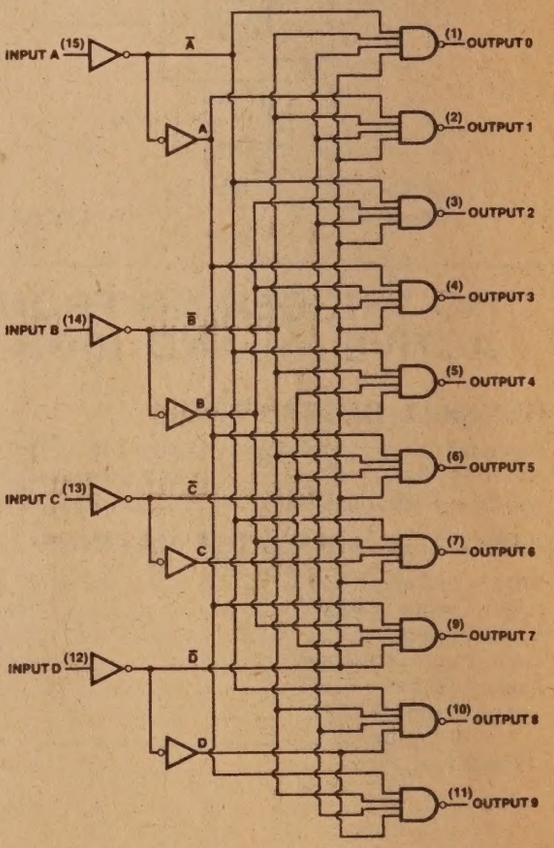


TRUTH TABLE

NO.	INPUTS				OUTPUTS									
	D	C	B	A	0	1	2	3	4	5	6	7	8	9
0	L	L	L	L	L	H	H	H	H	H	H	H	H	H
1	L	L	L	H	H	L	H	H	H	H	H	H	H	H
2	L	L	H	L	H	H	L	H	H	H	H	H	H	H
3	L	L	H	H	H	H	H	L	H	H	H	H	H	H
4	L	H	L	L	H	H	H	H	L	H	H	H	H	H
5	L	H	L	H	H	H	H	H	H	L	H	H	H	H
6	L	H	H	L	H	H	H	H	H	H	L	H	H	H
7	L	H	H	H	H	H	H	H	H	H	H	L	H	H
8	H	L	L	L	H	H	H	H	H	H	H	H	L	H
9	H	L	L	H	H	H	H	H	H	H	H	H	H	L
INVALID	H	L	H	L	H	H	H	H	H	H	H	H	H	H
	H	L	H	H	H	H	H	H	H	H	H	H	H	H
	H	H	L	L	H	H	H	H	H	H	H	H	H	H
	H	H	L	H	H	H	H	H	H	H	H	H	H	H
	H	H	H	L	H	H	H	H	H	H	H	H	H	H
	H	H	H	H	H	H	H	H	H	H	H	H	H	H

H = High Level (Off), L = Low Level (On)

LOGIC DIAGRAM



16-LINE TO 1-LINE MULTIPLEXER

74150
276-1829

GENERAL DESCRIPTION

The 74150 multiplexes sixteen digital lines to one output. A four-bit code determines the particular one-of-sixteen inputs which is routed to the output. The data is inverted from input to output. A strobe override places the output in the logical 1 state.

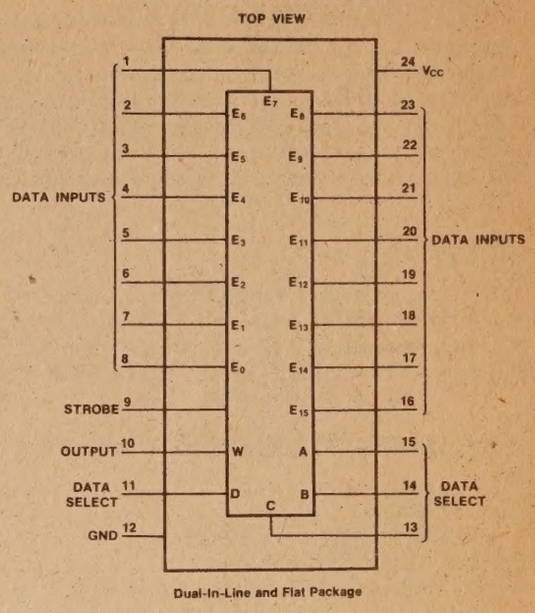
FEATURES

- Typical propagation delay 10 ns
- Typical power dissipation 225 mW

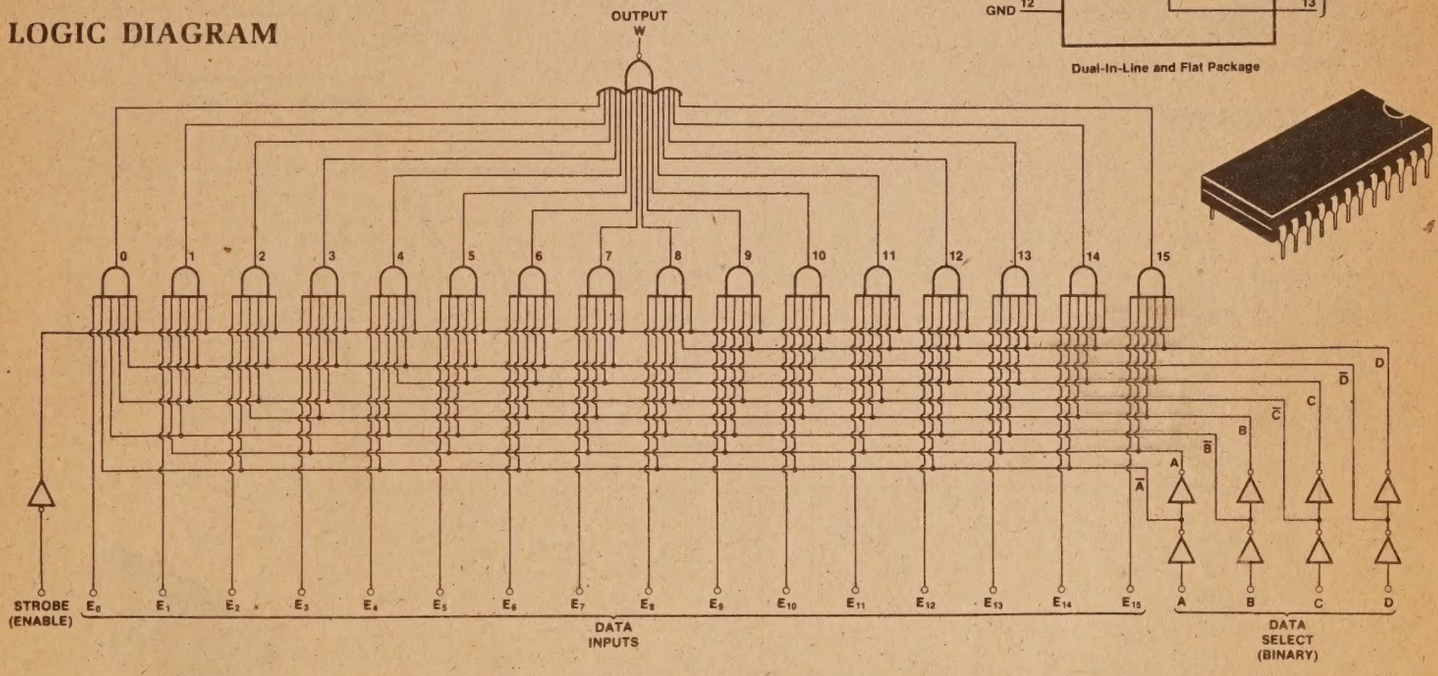
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	5.25V
Input Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 sec)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

PIN CONNECTION



LOGIC DIAGRAM



TRUTH TABLE

INPUTS					OUTPUT
SELECT				STROBE	W
D	C	B	A	S	
X	X	X	X	H	H
L	L	L	L	L	$\overline{E0}$
L	L	L	H	L	$\overline{E1}$
L	L	H	L	L	$\overline{E2}$
L	L	H	H	L	$\overline{E3}$
L	H	L	L	L	$\overline{E4}$
L	H	L	H	L	$\overline{E5}$
L	H	H	L	L	$\overline{E6}$
L	H	H	H	L	$\overline{E7}$
H	L	L	L	L	$\overline{E8}$
H	L	L	H	L	$\overline{E9}$
H	L	H	L	L	$\overline{E10}$
H	L	H	H	L	$\overline{E11}$
H	H	L	L	L	$\overline{E12}$
H	H	L	H	L	$\overline{E13}$
H	H	H	L	L	$\overline{E14}$
H	H	H	H	L	$\overline{E15}$

H = High Level
L = Low Level
X = Don't Care
$\overline{E0}$, $\overline{E1}$ . . . . . $\overline{E15}$ = The Complement of the Level of the Respective E Input.

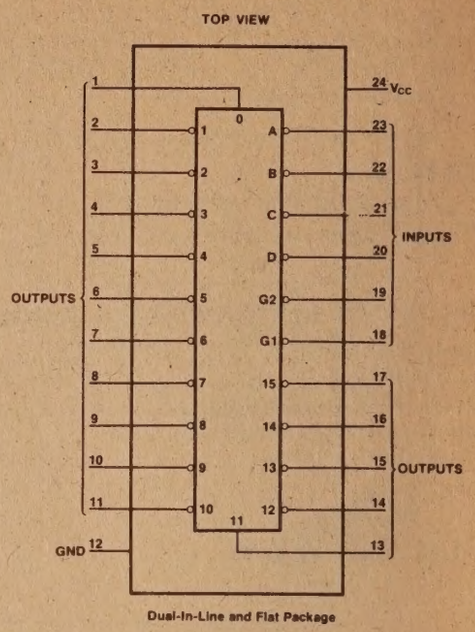
74154
276-1834

4-LINE TO 16-LINE DECODER/DEMULTIPLEXER

GENERAL DESCRIPTION

The 74154 is a TTL monolithic 4-line-to-16-line decoder which allows decoding of a 4 bit binary coded input into one of 16 separate outputs. The device is provided with two strobe lines, both of which have to be in the low state in order to perform the decoding function; if either of the strobes is high, all 16 outputs will remain high. The device can be used as a demultiplexer by passing information from one of the strobes (the other being low) to an output selected by the 4 line input address.

PIN CONNECTION



Dual-In-Line and Flat Package

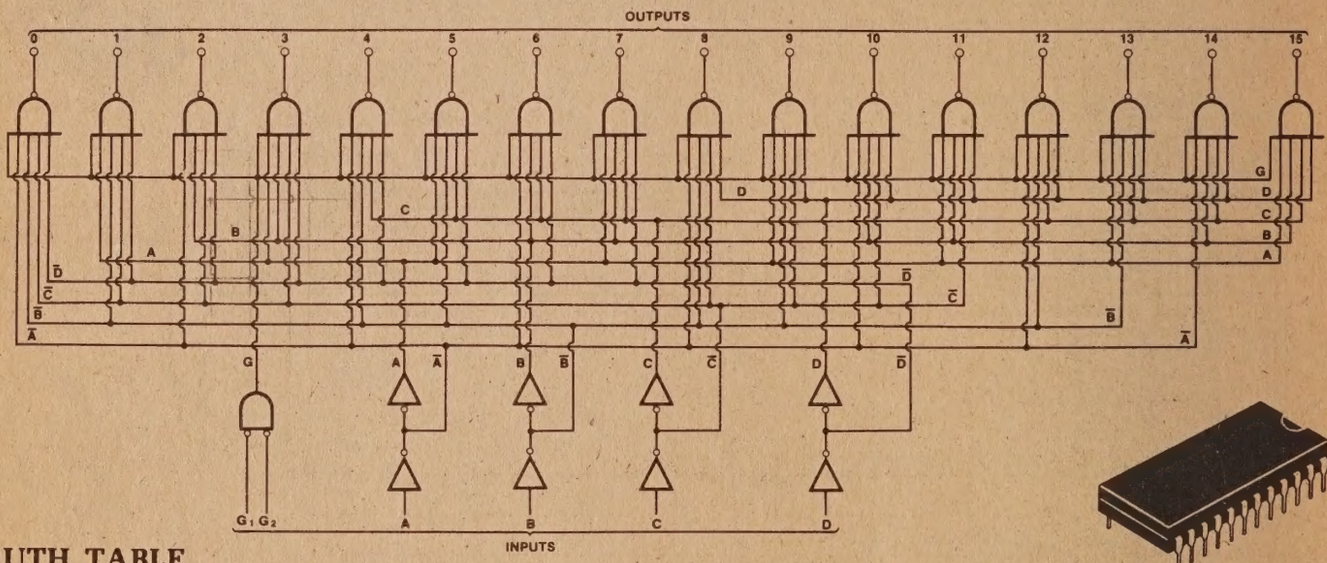
FEATURES

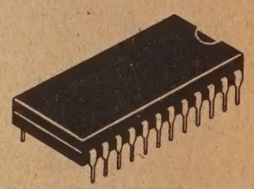
- All inputs contain clamp diodes
- Unit performs as a one line to 16 line demultiplexer
- Unit performs as a decoder of a 4 bit binary input to 1 or 16 outputs
- Typical propagation delay is 20 ns from inputs and 17 ns from strobe

ABSOLUTE MAXIMUM RATINGS

V_{CC}	5.25V
Input Voltage	5.5V
Operating Temperature Range	0°C to 75°C
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 sec)	300°C

LOGIC DIAGRAM





TRUTH TABLE

INPUTS						OUTPUTS														
G1	G2	D	C	B	A	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L	L	L	L	L	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	L	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	L	H	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	L	H	H	H	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H
L	L	L	H	L	L	H	H	H	H	L	H	H	H	H	H	H	H	H	H	H	H
L	L	L	H	L	H	H	H	H	H	H	L	H	H	H	H	H	H	H	H	H	H
L	L	L	H	H	L	H	H	H	H	H	H	L	H	H	H	H	H	H	H	H	H
L	L	L	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H	H	H
L	L	H	L	L	L	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H	H
L	L	H	L	L	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H
L	L	H	L	H	L	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H
L	L	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H
L	L	H	H	L	L	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H
L	L	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H
L	L	H	H	H	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H
L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L
L	H	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
H	L	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
H	H	X	X	X	X	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H

H = High Level
L = Low Level
X = Don't Care

USE THIS.

UP/DOWN DECADE COUNTER

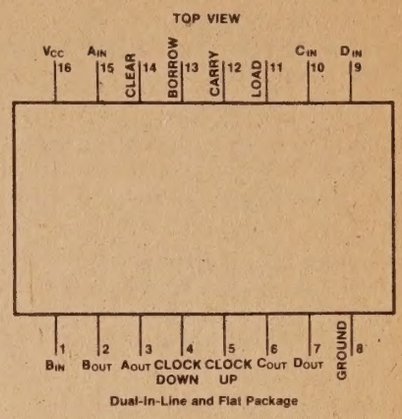
74192
276-1831

GENERAL DESCRIPTION

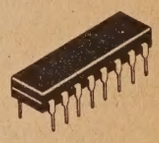
The 74192 is a TTL, up-down decade counter which is capable of being preset to any number from 0 through 9. A load input controls the asynchronous entry of these numbers, and sets all outputs to appropriate state.

Counting is performed through two clock lines—one controlling the count in the up direction, and the other in the down direction. Two outputs, Borrow and Carry, are connected to the clock inputs of subsequent counters to provide for counting to numbers greater than 9. The counter is synchronous by itself, and "semi-synchronous" (two-gate delays between stages) when cascaded.

PIN CONNECTION



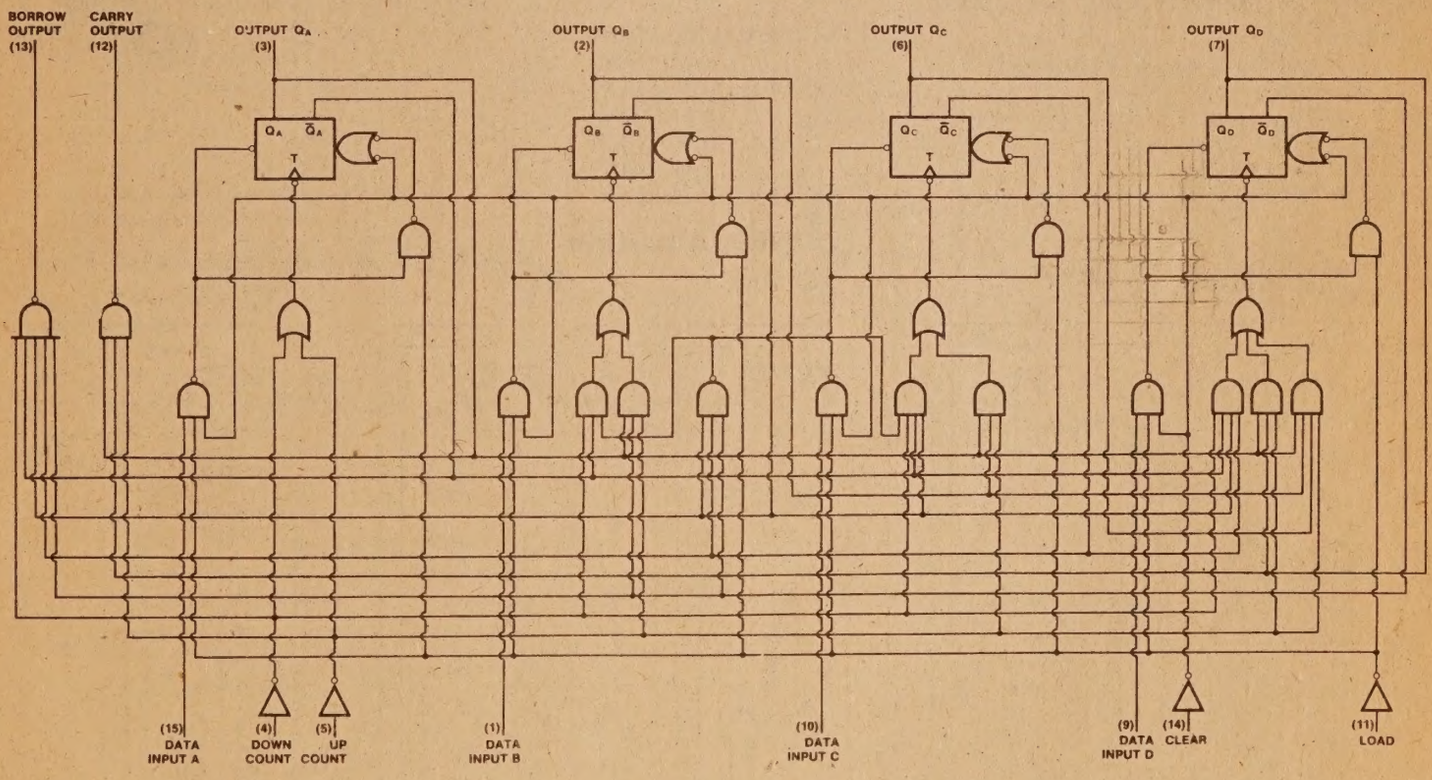
Dual-In-Line and Flat Package



ABSOLUTE MAXIMUM RATINGS

V_{CC}	5.25V
Input Voltage	5.5V
Operating Temperature Range	0°C to +70°C
Storage Temperature Range	-65°C to +150°C
Fanout	10
Lead Temperature (Soldering, 10 sec)	300°C

LOGIC DIAGRAM



74193 276-1820 SYNCHRONOUS UP/DOWN COUNTER WITH DUAL CLOCK

GENERAL DESCRIPTION

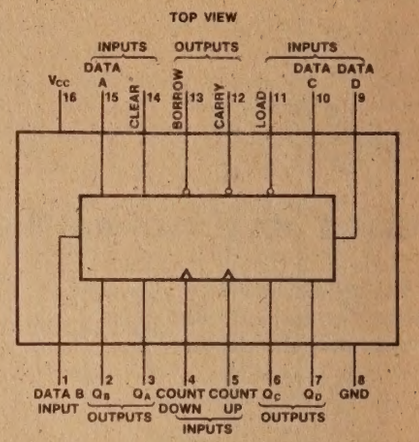
The 74193 is a 4-bit binary counter. Synchronous operation is provided by having all flip-flops clocked simultaneously, so that the outputs change together when so instructed by the steering logic. This mode of operation eliminates the output counting spikes normally associated with asynchronous (ripple-clock) counters.

The outputs of the four master-slave flip-flops are triggered by a low-to-high level transition of either count (clock) input. The direction of counting is determined by which count input is pulsed, while the other count input is held high.

All four counters are fully programmable; that is, each output may be preset to either level by entering the desired data at the inputs while the load input is low. The output will change independently of the count pulses. This feature allows the counters to be used as modulo-N dividers by simply modifying the count length with the preset inputs.

A clear input has been provided which, when taken to a high level, forces all outputs to the low level; independent of the count and load inputs. The clear, count, and load inputs are buffered to lower the drive requirements of clock drivers, etc., required for long words.

PIN CONNECTION



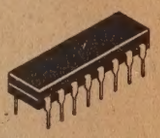
Note: Low input to load sets Q_A = A, Q_B = B, Q_C = C, and Q_D = D.

FEATURES

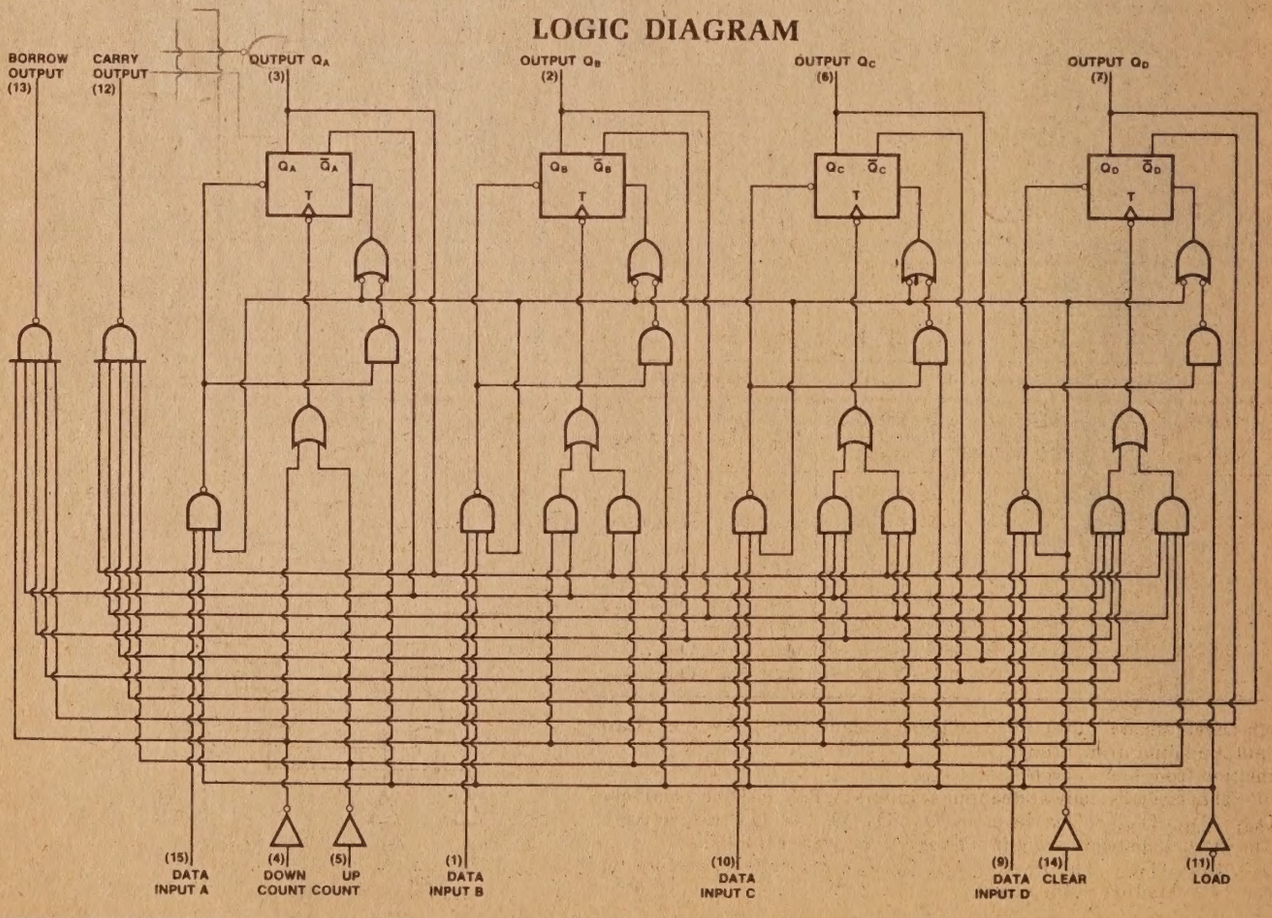
- Fully independent clear input
- Synchronous operation
- Cascading circuitry provided internally
- Individual preset each flip-flop

ABSOLUTE MAXIMUM RATINGS

Supply voltage V_{CC} ..... 4.75—5.25V (MIN-MAX)
Normalized fan-out from each output, N ..... 10 (MAX)
Input count frequency, f count ..... 0—25 MHz (MIN-MAX)
Width of any input pulse, tw ..... 20 ns (MIN)
Data setup time, t_{setup} ..... 20 ns (MIN)
Data hold time, t_{hold} ..... 1 ns (MIN)
Operating free-air temperature range, Ta ..... 0—70°C (MIN-MAX)



LOGIC DIAGRAM



FOUR-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTERS

74194
276-1832

GENERAL DESCRIPTION

The 74194 is a bidirectional shift register designed to incorporate virtually all of the features a system designer may want in a shift register. The circuit contains 46 equivalent gates and features parallel inputs, parallel outputs, right-shift and left-shift serial inputs, operating mode control inputs, and a direct overriding clear line. The register has four distinct modes of operation, namely:

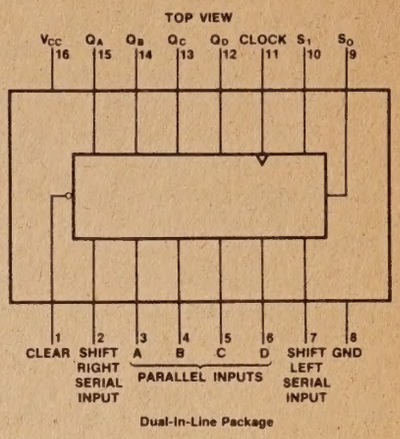
Parallel (Broadside) Load
Shift Right (In the direction Q_A toward Q_D)
Shift Left (In the direction Q_D toward Q_A)
Inhibit Clock (Do nothing)

Synchronous parallel loading is accomplished by applying the four bits of data and taking both mode control inputs, S_0 and S_1, high. The data is loaded into the associated flip-flop and appears at the outputs after the positive transition of the clock input. During loading, serial data flow is inhibited.

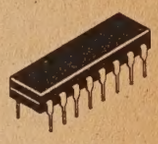
Shift right is accomplished synchronously with the rising edge of the clock pulse when S_0 is high and S_1 is low. Serial data for this mode is entered at the shift-left serial input.

Clocking of the flip-flop is inhibited when both mode control inputs are low. The mode controls should be changed only while the clock input is high.

PIN CONNECTION



Dual-In-Line Package



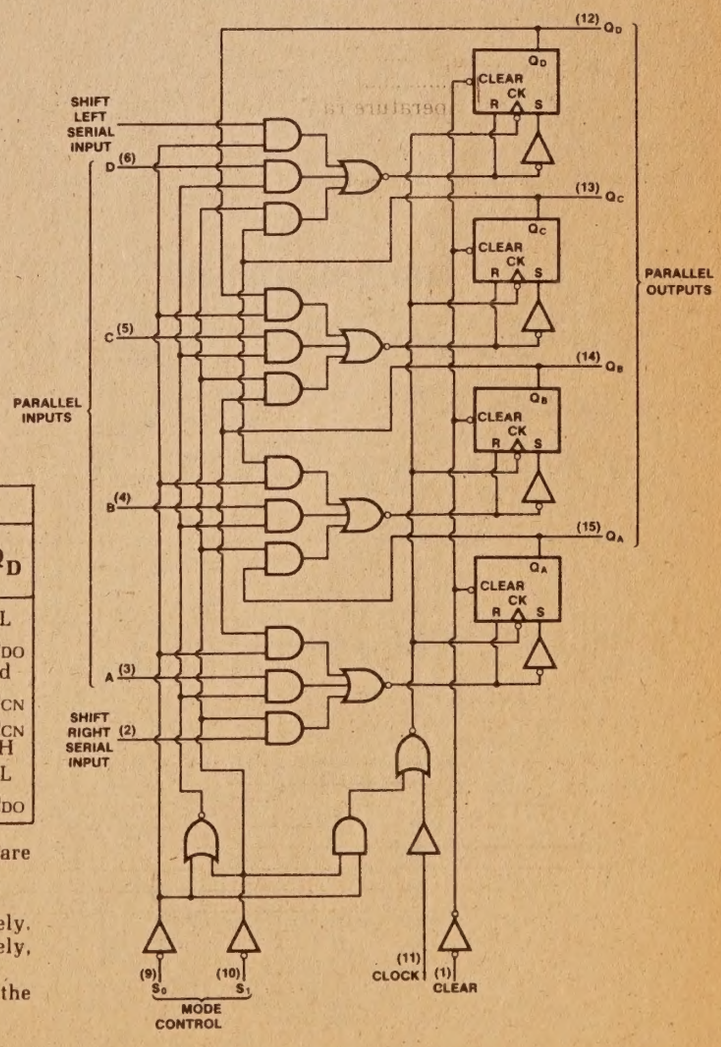
FEATURES

- Typical power dissipation 195 mW
- Typical clock frequency 36 MHz (max)
- Parallel inputs and outputs
- Four operating modes:
  - Synchronous parallel load
  - Right shift
  - Left shift
  - Do nothing
- Positive edge-triggered clocking
- Direct overriding clear

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC}	5.25V
Input Voltage	5.5V
Output Voltage	5.5V
Storage Temperature Range	-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C
Supply Voltage (V_{CC})	4.75—5.25V
Temperature (T_A)	0°C to 70°C

LOGIC DIAGRAM



TRUTH TABLE

INPUTS									OUTPUTS			
CLEAR	MODE S1	MODE S0	CLOCK	SERIAL LEFT	SERIAL RIGHT	PARALLEL A	PARALLEL B	PARALLEL C	PARALLEL D	Q_A	Q_B	Q_C	Q_D
L	X	X	X	X	X	X	X	X	X	L	L	L	L
H	X	X	L	X	X	X	X	X	X	Q_{AO}	Q_{BO}	Q_{CO}	Q_{DO}
H	H	H	↑	X	X	a	b	c	d	a	b	c	d
H	L	H	↑	X	H	X	X	X	X	H	Q_{AN}	Q_{BN}	Q_{CN}
H	L	H	↑	X	L	X	X	X	X	L	Q_{AN}	Q_{BN}	Q_{CN}
H	H	L	↑	H	X	X	X	X	X	Q_{BN}	Q_{CN}	Q_{DN}	H
H	H	L	↑	L	X	X	X	X	X	Q_{BN}	Q_{CN}	Q_{DN}	L
H	L	L	X	X	X	X	X	X	X	Q_{AO}	Q_{BO}	Q_{CO}	Q_{DO}

H = High Level (steady state), L = Low Level (steady state), X = Don't Care (any input, including transitions)
↑ = Transition from low to high level
a, b, c, d = The level of steady state input at inputs A, B, C, or D, respectively.
Q_{AO}, Q_{BO}, Q_{CO}, Q_{DO} = The level of Q_A, Q_B, Q_C, or Q_D, respectively, before the indicated steady state input conditions were established.
Q_{AN}, Q_{BN}, Q_{CN}, Q_{DN} = The level of Q_A, Q_B, Q_C, respectively, before the most recent ↑ transition of the clock.

74196 276-1833 40 MHz PRESETTABLE DECADE AND BINARY COUNTERS/LATCHES

GENERAL DESCRIPTION

These high-speed monolithic counters consist of four dc coupled master/slave flip-flops which are internally interconnected to provide either a divide-by-two and a divide-by-five counter. These counters are fully programmable; that is, the outputs may be preset to any state by placing a low on the count/load input and entering the desired data at the data inputs. The outputs will change to agree with the data inputs independent of the state of the clocks.

These counters may also be used as 4-bit latches by using the count/load input as the strobe and entering data at the data inputs. The outputs will directly follow the data inputs when the count/load is low, but will remain unchanged when the count/load is high and the clock inputs are inactive.

These high-speed counters will accept count frequencies of 0 to 40 MHz at the clock 1 input and 0 to 20 MHz at the clock 2 input. During the count operation, transfer of information to the outputs occurs on the negative-going edge of the clock pulse. The counters feature a direct clear which when taken low sets all outputs low regardless of the states of the clocks.

All inputs are diode-clamped to minimize transmission line effects and simplify system design. The circuits are compatible with most TTL and DTL logic families. Typical power dissipation is 150 mW.

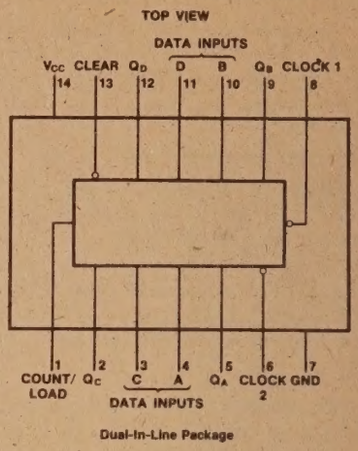
FEATURES

- Performs BCD, bi-quinary, or binary counting
- Fully independent clear input
- Guaranteed to count at input frequencies from 0 to 40 MHz
- Input clamping diodes simplify system design

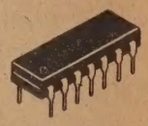
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC} 5.25V
Input Voltage 5.5V
Interemitter Voltage 5.5V
Storage Temperature Range ..... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ..... 300°C
Supply Voltage (V_{CC}) ..... 4.75—5.25V
Temperature (T_A) ..... 0°C to 70°C

PIN CONNECTION



Dual-In-Line Package



TRUTH TABLES

DECADE (BCD)
74196 (Note A)

COUNT	OUTPUT			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

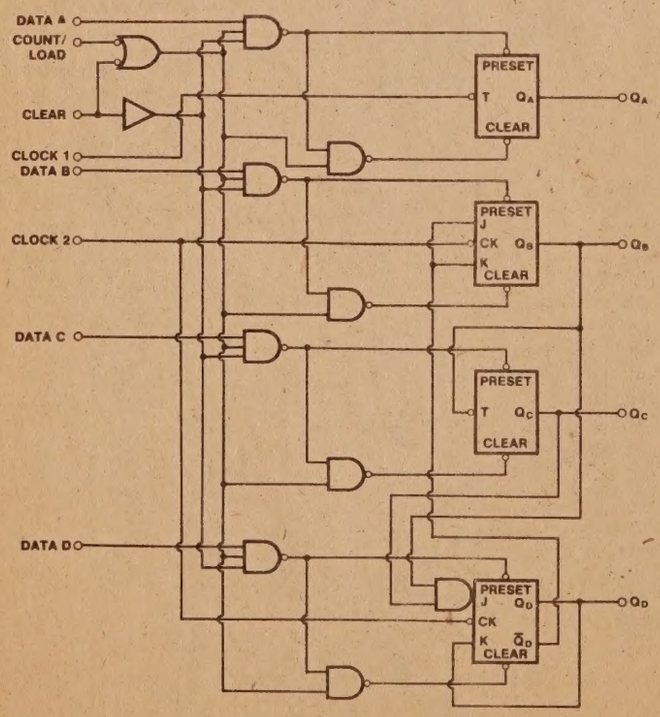
BI-QUINARY (5-2)
74196 (Note B)

COUNT	OUTPUT			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

Note A: Output Q_A connected to clock 2 input.

Note B: Output Q_D connected to clock 1 input.

LOGIC DIAGRAM



SPECIAL PURPOSE DEVICES

SCR'S

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

TRIAC'S

Catalog Number	Imax A	Vmax V	I_{GT} (max) mA	V_{GT} (max) V	Case Style
276-1001	6	200	50	2.5	TO220AB
276-1000	6	400	50	2.5	MU27

DIAC

Catalog Number	Breakover Voltage (Forward and Reverse) V_{bo} volts Min	Max	Breakover Voltage Symmetry V_{bo} ($1+V_{bo}$ 1 1 V_{bo} 1) Max Volts	Breakback Voltage Change (Forward and Reverse) V_{bb} Current = 6 ma Typ	Min	Peak Breakover Current at Breakover Voltage I_{bo} μa	Color Band or Dot Identification
276-1050	30	40	2	4	3	50	Orange

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

- Power dissipation
- Maximum collector current
- Maximum collector-to-emitter voltage
- Maximum collector-to-base voltage
- Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

- Gain
- Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in many cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even when making **exact** replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
0000000FR1	1104	0002SC1023	2011	002-12000	2009	01-119185-01	1725	09-302078	2009	09-306060	1102	09-306276	1102
0000000FR2	1104	0002SC1026	2011	002SC668D	2011	01-119185-02	1725	09-302079	2011	09-306061	1123	09-306283	1102
0000000FRI	1104	0002SC1026A	2011	002SC735-OY	2009	01-119185-03	1725	09-302092	2011	09-306062	1102	09-306285	1104
0000000MV4	1104	0002SC1026B	2011	002SC735OY	2009	02-1001-1221-3	1123	09-302095	2013	09-306063	1104	09-306287	562
0000000S15	1104	0002SC1026C	2011	002SC7350Y	2009	02-1006-2/2221-3	1102	09-302101	2009	09-306064	1123	09-306288	1102
0000000SD1	1104	0002SC1032	2011	003-00	2013	02-1078-01	2009	09-302103	2011	09-306073	561	09-306290	1123
0000001N60	1123	0002SC1032A	2011	003-001	1104	02-3002-2/2221-3	1104	09-302106	2009	09-306077	1101	09-306291	1102
00000010D1	1104	0002SC1032B	2011	003-005400	1123	02Z6.2	561	09-302114	2011	09-306083	1104	09-306300	1104
000000DS17	1104(2)	0002SC1032C	2011	003-006700	1123	02Z6.2A	561	09-302118	2009	09-306088	1104	09-306302	1104
000000DS18	1104(2)	0002SC1317	2009	003-007500	1123	02Z-9.1A	562	09-302122	2041	09-306089	1101	09-306303	1104
000000DS-38	1104	0004-003500	1104	003-009000	1123	02Z9.1A	562	09-302124	2009	09-306091	1123	09-306309	1102
000000DS38	1104	000546-1	2009	003-009100	564	02Z12A	563	09-302129	2011	09-306093	1123	09-306311	1114
000000SD1AB	1104	000653	2009	003-009200	563	02Z62A	561	09-302131	2009	09-306100	1104	09-306312	1104
000000SD1Y	1104	000704	2009	003-009400	1104	02Z102A	562	09-302138	2011	09-306103	1104	09-306313	1102
000000SD46	1123	0001849R	1104	003-009600	1123	03-0018-0	1104	09-302140	2009	09-306104	1104	09-306315	1104
000001S188	1123	00023645	2009	003-009700	563	03-0021-0	1123	09-302142	2011	09-306106	562	09-306323	1104
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020-1111-002(SCOTT)		070-013	1114	0131-002068	2041	057001	1123	04440028-006	2009	.7ZM12D	563	1-21-277	2009
	2041	070-014	1114	0131-004323	2009	057001H	1123	04440028-008	2009	.7ZM15A	564	1-21-278	2009
020-1111-003(SCOTT)		070-015	1114	0131-004367	2041	057005	1123	04440028-013	2009	.7ZM15B	564	1-21-279	2009
	2041	070-016	1114	0131-026	1104	057005H	1123	04440052-001	2009	.7ZM15C	564	1-21-289	2007
020-1111-007	2041	070-017	1114	0131-053	1104	057293	1102	04440052-002	2009	.7ZM15D	564	1-101	1104
020-1111-007(SCOTT)		070-019	1104	0132	2041	057500	1123	04450002-001	2009	.25N9.1	562	1-425-636	1123
	2041	070-020	2007	0134	2009	059395	1123	04450002-004	2009	.25N12	563	1-530-012-11	1104
020-1111-008	2041	070-021	564	0140-6	2009	061366	2009	04450002-005	2009	.25N13	563	1-531-027	1104
020-1111-008(SCOTT)		070-022	1102	0140-8	1104	075005	1123	04450023-001	2041	.25N15	564	1-531-5-11	1104
	2041	070-028	1114	0140-9	1104	080040	1104	04450023-006	2041	.25NN15	564	1-531-105	1104
020-1111-019	2041	070-030	1114	0234	1104	080050	1104	05320074H	2009	.25T5.8	561	1-531-105-11	1104
020-1112-001	2009	070-032	1114	0244	1104	082006	2009	0A7	1123	.25T5.8A	561	1-531-105-13	1104
020-1112-002	2036	070-033	1114	0300	1104	082019	2009	0A9	1123	.25T6.2	561	1-531-106	1104
020-1112-002(SCOTT)		070-047	1102	0301	1104	082020	2010	0A9M	1123	.25T6.2A	561	1-531-106-13	1104
	2035	078-0016	1104	0301-3055-00	2041	085002	1123	0A70	1123	.25T6.2B	561	1-531-106-17	1104
020-1112-004	2011	078-1696	1104	0302	1104	085003	1102	0A73	1123	.25T8.7	562	1-531-10513	1104
020-1112-004(SCOTT)		078-2400	1104	0304	1104	085004	1123	0A81	1123	.25T8.7A	562	1-534-105-13	1104
	2009	078-5001	1104	0307	1114	085005	1123	0A90	1123	.25T8.8	562	1-534-106-13	1104
020-1112-005	2035	085	2041	0310	1104	085006	1123	0A90M	1123	.25T8.8A	562	1-801-003	2009
020-1112-006	2035	086-005132-02	2009	0311	1104	085016	1123	0A90Z	1123	.25T9.1	562	1-801-004	2009
020-1112-008	2036	088-2	1114	0312	1104	085026	1123	0A91	1123	.25T9.1A	562	1-801-004-17	2009
021-0121-00	2009	088C	2007	0314	1104	0170301	1102	0A95	1123	.25T9.1B	562	1-801-304-15	2011
022	1102	088C-12	2007	0317	1114	0330302	563	0A180	1123	.25T12	563	1-801-314	2009
022-006500	2009	088C-12-7	2007	0320	1104	0510006	1104	0A12612	563	.25T12A	563	1-801-314-15	2009
022-0163-00	1122	089-223	2009	0321	1104	0517022	1123	0AZ213	563	.25T12B	563	1-801-314-16	2009
022-2823-002	562	089-226	2009	0322	1104	0517132	1102	0C238	2009	.25T15	564	1-8259	1104
022-2823-004	1102	089-233	2001	0324	1104	0517133	1102	0F160	1104	.25T15A	564	1-13989	1122
022-2823-005	1102	089-236	1123	0327	1114	0517550-3	1104	0F162	1102	.25T15B	564	1-16549	1102
022-2823-006	1123	089-241	1102	0400	1104	0517750	1104	0F164	1104	.75N5	564	1-20363	562
022-2823-008	1123	089-248	1123	0401	1104	0517750H	1104	0F173	1123	.75N6.2	561	1-522223720	2009
022-2823-011	1104	089-252	1104	0402	1104	0517826	1123	0N047204-2	2009	.75N12	563	1-6147191229	2009
022-2876-003	2013	089-293	1123	0410	1104	0517828	1123	0N271	2030	1/4A9.1	562	1-6171191368	2009
022-2876-005	2035	090A64-1	1123	0411	1104	0517829	1123	0N47204-1	2009	1/4A9.1A	562	1-6501190016	1104
022-2876-006	2036	094-007	1122	0412	1104	0518926	1102	0N120623	1122	1/4A9.1B	562	1-DI-007	1102
022-2876-007	2014	094-010	1104	0450	1104	0525002	1123	0N143285	1122	1/4A12	563	1-DI-009	1123
022-2876-009	2036	094-011	1114	0460	1104	0525002H	1123	0N187840	007	1/4A12A	563	1-RE-004	1104
022-2876-012	2020	094-014	1123	0500	1102	0526224	1123	0N206068	1122	1/4A12B	563	1-TR-048	2011
022-3901-001	1123	098-1	1104	0557-010	1104	0526232	1102	0S4.000654	1102	1/4A15	564	1+12/1	1104
022-3902-001	1123	098GI219	1114	0575-005	1123	0537640	1104	0S22.3901-001	1123	1/4A15A	564	1&12/1	1104
022-3905-001	1104	098GI219	1114	0700	1104	0537640(DIO)	1104	0S22.3902-001	1123	1/4A15B	564	1A0020	2009
022D	1104	0100	1104	0701	1104	0537640(XSTR)	2007	0S22.3905-001	1104	1/4AZ6.2D5	561	1A0021	2009
022.3901-001	1123	0101	1102	0702	1104	0537820	1123	0S-90	1123	1/4LZ6.2D	561	1A0022	2009
022.3902-001	1123	0101-0491	2009	0704	1104	0551029	1104	0S536G	2009	1/4LZ6.2D5	561	1A0024	2009
022.3905-001	1104	0101-0540	2009	0707	1114	0552006	1104	0Z12T5	563	1/4M6.2AZ5	561	1A0025	2009
025	2041	0102	1104	0710	1104	0552006H	1104	0Z12T10	563	1/4M9.1Z	562	1A0029	2009
025-009600	2011	0103-0014	2009	0727-50	1104	0552007H	1104	.4T6.2	561	1/4M9.1Z5	562	1A0032	2009
025-10029	1114	0103-0014/4460	2009	0776-0160	2009	0552010	1104	.4T6.2A	561	1/4M9.1Z10	562	1A0033	2009
025-10030	2009	0103-0060(B)	2030	01122-0073	1123	0552010H	1104	.4T6.2B	561	1/4M15Z	564	1A0034	2009
025-100008	1101	0103-0060A	2030	01339	1104	0570519	1123	.4T6.8A	561	1/4M15Z5	564	1A0035	2009
025-100016	1104	0103-0088	2009	03008-1	2009	0573066	2009	.4T9.1	562	1/4M15Z10	564	1A0037	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1A0043	2009	1E12Z	563	1N48A	1123	1N99A	1123	1N281	1123	1N390	1102	1N511	1104
1A0044	2009	1E12Z5	563	1N49	1123	1N100	1123	1N282	1123	1N391	1102	1N512	1104
1A0045	2030	1E12Z10	563	1N50	1123	1N100A	1123	1N283	1123	1N392	1102	1N513	1104
1A0051	2009	1E15Z	564	1N51	1123	1N103	1123	1N285	1123	1N393	1102	1N514	1104
1A0063	2009	1E15Z5	564	1N52	1123	1N104	1123	1N287	1123	1N394	1102	1N515	1104
1A0067	2009	1E15Z10	564	1N52A	1123	1N105	1123	1N288	1123	1N400	1104	1N516	1104
1A0070	2009	1E535A	2013	1N54	1123	1N107	1123	1N289	1123	1N400B	1104	1N517	1114
1A0076	2009	1E535A/7825B	2013	1N54A	1123	1N108	1123	1N290	1123	1N414B	1102	1N518	1114
1A0077	2009	1E535B	2011	1N54G	1123	1N109	1123	1N292	1123	1N416B	1101	1N519	1104
1A0078	2009	1EA10A	1104	1N54GA	1123	1N110	1101	1N294	1123	1N417	1123	1N520	1104
1A0079	2009	1EA20A	1104	1N56	1123	1N111	1123	1N294A	1123	1N418	1123	1N521	1104
1A0080	2009	1EA30A	1104	1N56A	1123	1N112	1123	1N295A	1123	1N419	1123	1N522	1104
1A0081	2009	1EA40A	1104	1N57	1123	1N113	1123	1N295S	1123	1N429	561	1N523	1104
1A0083	2009	1EA50A	1104	1N57A	1123	1N114	1123	1N295X	1123	1N431	1102	1N524	1104
1A0084	2009	1EA60A	1104	1N58	1123	1N115	1123	1N296	1123	1N432	1102	1N525	1114
1A9.1M	562	1ET02	1104	1N58A	1123	1N116	1123	1N297	1123	1N432A	1102	1N526	1114
1A9.1MA	562	1ET05	1104	1N60	1123	1N116A	1123	1N297A	1123	1N432B	1102	1N527	1123
1A12M	563	1ET1	1104	1N60(TV)(FA-1)	1123	1N117	1123	1N298	1123	1N433	1102	1N530	1104
1A12MA	563	1ET2	1104	1N60/0112-0028-6438		1N117A	1123	1N298A	1123	1N433A	1102	1N531	1104
1A15M	564	1ET3	1104		1123	1N118	1123	1N299	1101	1N433B	1102	1N532	1104
1A15MA	564	1ET4	1104	1N60/3490	1123	1N118A	1123	1N299B	1101	1N434	1102	1N533	1104
1A35	1122	1ET5	1104	1N60/4454C	1123	1N119	1123	1N300	1102	1N434A	1102	1N534	1104
1A50	1104	1ET6	1104	1N60-M3	1123	1N119A	1123	1N300A	1102	1N434B	1102	1N535	1104
1A62	561	1ET7	1114	1N60-P	1123	1N120	1123	1N300B	1102	1N435	1123	1N536	1104
1A4757-1	2009	1ET8	1114	1N60-S	1123	1N120A	1123	1N301	1102	1N440	1104	1N537	1104
1A10425	1104	1ET10	1114	1N60-T	1123	1N124	1101	1N301A	1102	1N440B	1104	1N538	1104
1A10952	1104	1EZ9.1	562	1N60-Z	1123	1N124A	1101	1N301B	1102	1N441	1104	1N539	1104
1A11184	1104	1EZ12	563	1N60A	1123	1N125	1123	1N303	1102	1N441B	1104	1N540	1104
1A11306	1123	1EZ15	564	1N60C	1123	1N126	1123	1N303A	1102	1N442	1104	1N541	1123
1A11671	1104	1F05	1104	1N60D	1123	1N126A	1123	1N303B	1102	1N442B	1104	1N542	1123
1A12214	1104	1F2	1104	1N60F	1123	1N128	1123	1N304	1123	1N443	1104	1N547	1104
1A12407	1104	1F8	1114	1N60FM	1123	1N128A	1123	1N305	1123	1N443B	1104	1N548	1114
1A12688	562	1F14A	1104	1N60FMX	1123	1N132	1123	1N306	1123	1N444	1104	1N550	1104
1A12689	1123	1FM2	1104	1N60G	1123	1N133	1123	1N307	1123	1N444B	1104	1N554	1104
1A12690	1104	1G01	1123	1N60GA	1123	1N134	1123	1N308	1123	1N445	1104	1N555	1104
1A13219	1104	1G02	1123	1N60GB	1123	1N135	1102	1N309	1123	1N445B	1104	1N560	1114
1A13719	1104	1G2C1	1104	1N60M	1123	1N137A	1102	1N310	1123	1N447	1123	1N561	1114
1A13720	1104	1G2Z1	1104	1N60P	1123	1N137B	1102	1N312	1123	1N448	1104	1N564	1123
1A14384	1123	1G8	1114	1N60S	1123	1N138	1102	1N314	1123	1N449	1123	1N568	1102
1A15790	1104	1G25	1123	1N60SD60	1123	1N138A	1102	1N315	1104	1N450	1104	1N569	1123
1A16549	1102	1G86	1123	1N60TV	1123	1N138B	1102	1N315A	1104	1N451	1104	1N571	1123
1A16550	1104	1GA	1104	1N60TVGL	1123	1N139	1123	1N316	1104	1N452	1123	1N596	1104
1A16551	1102	1GD2	1123	1N62	1123	1N140	1123	1N316A	1104	1N453	1104	1N597	1114
1A69425-1	1122	1GD4	1123	1N63	1123	1N142	1123	1N317	1104	1N454	1123	1N598	1114
1A99812-1001	1122	1GD5X	1123	1N63A	1123	1N143	1123	1N317A	1104	1N455	1123	1N599	1104
1AC12	563	1GD6	1123	1N64	1123	1N144	1123	1N318	1104	1N456	1102	1N599A	1104
1AC12A	563	1GD10	1123	1N64A	1123	1N145	1123	1N318A	1104	1N456A	1102	1N600	1104
1AC12B	563	1HY40	1104	1N64B	1123	1N147	1101	1N319	1104	1N457	1102	1N600A	1104
1AC15	564	1HY50	1104	1N64G	1123	1N147A	1101	1N319A	1104	1N457A	1102	1N601	1104
1AC15A	564	1HY80	1114	1N64GA	1123	1N148	1123	1N320	1104	1N457M	1102	1N601A	1104
1AC15B	564	1HY100	1114	1N65	1123	1N151	1104	1N320A	1104	1N458	1102	1N602	1104
1B05J20	1104	1J1	2009	1N65A	1123	1N152	1104	1N321	1104	1N458A	1102	1N602A	1104
1B05J40	1104	1JZ61	1104	1N66	1123	1N153	1104	1N321A	1114	1N458M	1102	1N603	1104
1B2	1104	1K60	1123	1N66A	1123	1N158	1104	1N322	1114	1N459	1102	1N603A	1104
1B-2C1	1104(2)	1K60A	1123	1N67	1123	1N169	1104	1N322A	1114	1N459A	1102	1N604	1104
1B10J20	1104	1M6.2ZS5	561	1N67A	1123	1N172	1101	1N323	1104	1N459M	1102	1N604A	1104
1B759	563	1M6.2ZS10	561	1N68	1123	1N173	1101	1N323A	1104	1N460	1102	1N605	1104
1B2992	1122	1M9.1Z	562	1N68A	1123	1N191	1123	1N324	1104	1N460A	1102	1N605A	1104
1C0009	1104	1M9.1Z5	562	1N69	1123	1N192	1123	1N324A	1104	1N460B	1102	1N606	1104
1C0017	1104	1M9.1Z10	562	1N69A	1123	1N193	1104	1N325	1104	1N461	1102	1N606A	1104
1C0025	1104	1M9.1ZS5	562	1N70	1123	1N194	1102	1N325A	1104	1N461A	1102	1N613	1104
1C0026	1104	1M9.1ZS10	562	1N70A	1123	1N194A	1102	1N326	1104	1N462	1102	1N613A	1104
1C0029	1123	1M12Z	563	1N71	1123	1N195	1102	1N326A	1104	1N462A	1102	1N614	1104
1C0031	1104	1M12Z5	563	1N72	1123	1N196	1102	1N327	1104	1N463	1102	1N614A	1104
1C0039	1123	1M12Z10	563	1N72G	1123	1N198	1123	1N327A	1104	1N463A	1102	1N616	1123
1C05	1104(2)	1M12ZS5	563	1N73	1123	1N198A	1123	1N328	1114	1N464	1102	1N617	1123
1C1	1104(2)	1M12ZS10	563	1N74	1123	1N198B	1123	1N328A	1114	1N464A	1102	1N618	1123
1C2	1104(2)	1M15Z	564	1N75A	1123	1N200	1102	1N329	1114	1N476	1123	1N619	1102
1C4	1104(2)	1M15Z5	564	1N76	1123	1N201	1102(2)	1N329A	1114	1N477	1123	1N622	1102
1C6	1104(2)	1M15Z10	564	1N76A	1123	1N202	1102	1N331	1102	1N478	1123	1N625	1102
1C10	1114	1M15ZS5	564	1N76C	1123	1N203	1102	1N348	1104	1N479	1123	1N625A	1102
1C12Z	563	1M15ZS10	564	1N76G	1123	1N204	1102	1N350	1102	1N480	1123	1N625M	1102
1C12ZA	563	1M753A	561	1N81	1123	1N205	1102	1N351	1102	1N480B	1104	1N626	1102
1C15Z	564	1M1614D	2009	1N81A	1123	1N206	1102(2)	1N352	1102	1N482	1102	1N626A	1102
1C15ZA	564	1M2086	1104	1N82	1101	1N207	1102	1N353	1102(2)	1N482A	1102	1N626M	1102
1C3576	2009	1M8513A	1104	1N82A	1101	1N208	1102	1N354	1104	1N482B	1102	1N627	1102
1D08	564	1MA4	1104	1N82AG	1101	1N209	1102(2)	1N355	1123	1N482C	1102	1N627A	1102
1D098-001V-022	1102	1N10	1123	1N82D	1101	1N210	1102	1N359	1104	1N483	1102	1N628	1102
1D1	1104(2)	1N10D-4F	1104	1N82G	1101	1N211	1102	1N359A	1104	1N483A	1102	1N628A	1102
1D2	1104(2)	1N22	1123	1N84	1123	1N212	1102	1N360	1104	1N483AM	1102	1N629	1102
1D2Z1	1104	1N31A	1123	1N86	1123	1N213	1102	1N360A	1104	1N483B	1102	1N629A	1102
1D6	1104(2)	1N34	1123	1N86AG	1123	1N214	1102	1N361	1104	1N483BM	1102	1N631	1123
1D6.2	561	1N34A	1123	1N87	1123	1N215	1102	1N361A	1104	1N483C	1102	1N632	1123
1D6.2A	561	1N34AM	1123	1N87A	1123	1N216	1102	1N362	1104	1N484	1102	1N633	1102
1D6.2B	561	1N34AS	1123	1N87G	1123	1N217	1102	1N362A	1104	1N484A	1102	1N636	1123
1D6.2SA	561	1N34A-Z	1123	1N87GA	1123	1N218	1102	1N363	1104	1N484B	1102	1N636A	1123
1D6.2SB	561	1N34G	1123	1N87S	1123	1N225	562	1N363A	1104	1N484C	1102	1N643	1102
1D8	1114	1N34GA	1123	1N87T	1123	1N225A	562	1N364	1114	1N485	1102	1N643A	1102
1D10	1114	1N34M	1123	1N88	1123	1N228	564	1N364A	1114	1N485A	1102	1N645	1104
1D261	1104	1N34Z	1123	1N89	1123	1N251	1102	1N365	1114	1N485B	1102	1N645A	1104
1DC1	1104	1N35	1123	1N90	1123	1N251A	1102	1N365A	1114	1N485C	1102	1N645B	1104
1DG2	1123	1N36	1123	1N90G	1123	1N252	1102	1N367	1123	1N486	1102	1N646	1104
1E05	1104	1N38	1123	1N90GA	1123	1N252A	1102	1N367B	1123	1N486A	1102	1N647	1104
1E1	1104	1N38A	1123	1N91	1104	1N255	1104	1N368	1104	1N486B	1102	1N648	1104
1E2	1104	1N38B	1123	1N92	1104	1N256	1104	1N379	1102(2)	1N497	1123	1N649	1104
1E2Z5	563	1N40	1123	1N93	1104	1N265	1123	1N380	1102	1N498	1123	1N658	1102
1E3	1104	1N41	1123	1N93A	1104	1N266	1123	1N381	1102	1N500	1123	1N658A	1102
1E4	1104	1N43	1123	1N95	1123	1N267	1123	1N382	1102	1N503	1104	1N658M	1102
1E5	1104	1N44	1123	1N96	1123	1N268	1123	1N383	1102	1N504	1104	1N659	1102
1E6	1104	1N45	1123	1N96A	1123	1N270	1123	1N384	1102(2)	1N505	1104	1N659/A	1102
1E7	1114	1N45A	1123	1N97	1123	1N273	1123	1N385	1102(2)	1N506	1104	1N659A	1102
1E8	1114	1N46	1123	1N97A	1123	1N276	1123	1N386	1102	1N507	1104	1N660	1102
1E9.1Z	562	1N46A	1123	1N98	1123	1N277	1123	1N387	1102(2)	1N508	1104	1N660A	1102
1E9.1Z10	562	1N47	1123	1N98A	1123	1N278	1123	1N388	1102(2)	1N509	1114	1N661	1102
1E10	1114	1N48	1123	1N99	1123	1N279	1123	1N389	1102	1N510	1114	1N661A	1102

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N662	1102	1N814M	1102	1N906AM	1102	1N1051	1104	1N1557	1104	1N2016	1104	1N2489	1104
1N662A	1102	1N815	1102	1N906M	1102	1N1052	1104	1N1558	1104	1N2017	1104	1N2609	1104
1N663	1102	1N815M	1102	1N907	1102	1N1053	1104	1N1559	1104	1N2018	1104	1N2610	1104
1N663A	1102	1N816	561	1N907/A	1102	1N1054	1104	1N1560	1104	1N2019	1104	1N2611	1104
1N663M	1102	1N817	1102	1N907A	1102	1N1055	1104	1N1561	1123	1N2020	1104	1N2612	1104
1N665	563	1N818	1102	1N907AM	1102	1N1081	1104	1N1562	1123	1N2033	561	1N2613	1104
1N666	564	1N818M	1102	1N907M	1102	1N1081A	1104	1N1563	1104	1N2033-2	561	1N2614	1104
1N673	1104	1N819	1104	1N908	1102	1N1082	1104	1N1563A	1104	1N2035-1	562	1N2615	1104
1N675	561	1N821	561	1N908/A	1102	1N1082A	1104	1N1564	1104	1N2035-12	562	1N2620	562
1N676	1104	1N821A	561	1N908A	1102	1N1083	1104	1N1564A	1104	1N2037-1	563	1N2620A	562
1N677	1104	1N822	561	1N908AM	1102	1N1083A	1104	1N1565	1104	1N2037A	563	1N2620B	562
1N678	1104	1N822AG	1101	1N908M	1102	1N1084	1104	1N1565A	1104	1N2038-1	564	1N2621	562
1N679	1104	1N823	561	1N909	1123	1N1084A	1104	1N1566	1104	1N2038A	564	1N2621A	562
1N681	1104	1N823A	561	1N910	1123	1N1093	1123	1N1566A	1104	1N2046	563	1N2621B	562
1N682	1104	1N824	561	1N911	1123	1N1095	1114	1N1567	1104	1N2069	1104	1N2622	562
1N683	1104	1N825	561	1N914	1122	1N1096	1114	1N1567A	1104	1N2069A	1104	1N2622A	562
1N684	1104	1N825A	561	1N914/A/B	1122	1N1100	1104	1N1568	1104	1N2070	1104	1N2622B	562
1N685	1104	1N827	561	1N914A	1122	1N1101	1104	1N1568A	1104	1N2070A	1104	1N2623	562
1N686	1104	1N827A	561	1N914B	1122	1N1102	1104	1N1617	1104	1N2071	1104	1N2623A	562
1N687	1104	1N829	561	1N914M	1122	1N1103	1104	1N1618	1104	1N2071A	1104	1N2623B	562
1N689	1104	1N829A	561	1N915	1102	1N1104	1104	1N1619	1104	1N2072	1104	1N2624	562
1N690	1102	1N835	1123	1N916	1104	1N1105	1104	1N1620	1104	1N2073	1104	1N2624A	562
1N692	1104	1N837	1102	1N916A	1102	1N1119	1104	1N1630	1102	1N2074	1104	1N2624B	562
1N695	1123	1N837A	1102	1N916B	1102	1N1120	1104	1N1638	1102	1N2075	1104	1N2638	1104
1N695A	1123	1N838	1102	1N917	1102	1N1122A	1104	1N1644	1104	1N2075K	1102	1N2650	1104
1N696	1102	1N839	1102	1N919	1102	1N1169	1104	1N1645	1104	1N2076	1104	1N2790	562
1N697	1102	1N840	1102	1N920	1102	1N1169A	1104	1N1646	1104	1N2077	1104	1N2801	1123
1N698	1123	1N840M	1102	1N921	1102	1N1217	1104	1N1647	1104	1N2078	1104	1N2850	1104
1N709	561	1N841	1102	1N922	1102	1N1217A	1104	1N1648	1104	1N2079	1104	1N2851	1104
1N709A	561	1N842	1102	1N924	1102	1N1217B	1104	1N1649	1104	1N2080	1104	1N2858	1104
1N709B	561	1N843	1102	1N925	1102	1N1218	1104	1N1650	1104	1N2081	1104	1N2858A	1104
1N713	562	1N844	1102	1N926	1102	1N1218A	1104	1N1651	1104	1N2082	1104	1N2859	1104
1N713A	562	1N845	1102	1N927	1102	1N1218B	1104	1N1652	1104	1N2083	1104	1N2859A	1104
1N713B	562	1N846	1104	1N928	1102	1N1219	1104	1N1653	1104	1N2084	1104	1N2860	1104
1N716	563	1N847	1104	1N929	1102(2)	1N1219A	1104	1N1692	1104	1N2085	1104	1N2860A	1104
1N716(ZENER)	563	1N848	1104	1N930	1102	1N1219B	1104	1N1693	1104	1N2086	1104	1N2861	1104
1N716A	563	1N849	1104	1N931	1102	1N1220	1104	1N1694	1104	1N2088	1104	1N2861A	1104
1N716B	563	1N850	1104	1N932	1102	1N1220A	1104	1N1695	1104	1N2089	1104	1N2862	1104
1N718	564	1N851	1104	1N933	1102	1N1220B	1104	1N1696	1104	1N2090	1104	1N2862A	1104
1N718A	564	1N852	1104	1N934	1102	1N1221	1104	1N1697	1104	1N2091	1104	1N2863	1104
1N718B	564	1N853	1114	1N935	562	1N1221A	1104	1N1701	1104	1N2092	1104	1N2863A	1104
1N719	564	1N854	1114	1N935A	562	1N1221B	1104	1N1702	1104	1N2093	1104	1N2864	1104
1N753	561	1N855	1114	1N935B	562	1N1222	1104	1N1703	1104	1N2094	1104	1N2864A	1104
1N753A	561	1N856	1114	1N936	562	1N1222A	1104	1N1704	1104	1N2095	1104	1N3019	562
1N757	562	1N857	1104	1N936A	562	1N1222B	1104	1N1705	1104	1N2096	1104	1N3019A	562
1N757A	562	1N858	1104	1N936B	562	1N1223	1104	1N1706	1104	1N2103	1104	1N3019B	562
1N759	563	1N859	1104	1N937	562	1N1223A	1104	1N1707	1104	1N2104	1104	1N3022	563
1N759A	563	1N860	1104	1N937A	562	1N1223B	1104	1N1708	1104	1N2105	1104	1N3022A	563
1N760	1102	1N861	1104	1N937B	562	1N1224	1104	1N1709	1104	1N2106	1104	1N3022B	563
1N764	562	1N862	1104	1N938	562	1N1225A	1114	1N1710	1104	1N2107	1104	1N3024	564
1N764-3	562	1N863	1104	1N938A	562	1N1226A	1114	1N1711	1104	1N2108	1104	1N3024A	564
1N765	563	1N864	1114	1N938B	562	1N1251	1104	1N1712	1104	1N2115	1104	1N3024B	564
1N766-1	563	1N865	1114	1N939	562	1N1252	1104	1N1713	563	1N2116	1104	1N3062	1122
1N767	564	1N866	1114	1N939A	562	1N1253	1104	1N1730	1114	1N2117	1104	1N3063	1102
1N767-1	564	1N867	1114	1N939B	562	1N1254	1104	1N1730A	1114	1N2163	562	1N3064	1102
1N770	1123	1N868	1104	1N941	563	1N1255	1104	1N1735	561	1N2163A	562	1N3065	1102
1N771	1123	1N869	1104	1N941A	563	1N1255A	1104	1N1736	563	1N2164	562	1N3066	1102
1N771A	1123	1N870	1104	1N941B	563	1N1256	1104	1N1736A	563	1N2164A	562	1N3067	1102
1N771B	1123	1N871	1104	1N942	563	1N1257	1104	1N1763	1104	1N2165	562	1N3068	1102
1N772A	1123	1N872	1104	1N942A	563	1N1258	1114	1N1763A	1104	1N2165A	562	1N3069	1102
1N773	1123	1N873	1104	1N942B	563	1N1259	1114	1N1764	1104	1N2166	562	1N3069M	1102
1N773A	1123	1N874	1104	1N943	563	1N1260	1114	1N1764A	1104	1N2166A	562	1N3070	1102
1N774	1123	1N875	1114	1N943A	563	1N1261	1114	1N1766	561	1N2167	562	1N3071	1102
1N774A	1123	1N876	1114	1N943B	563	1N1313	562	1N1766A	561	1N2167A	562	1N3072	1104
1N775	1123	1N877	1114	1N944	563	1N1313A	562	1N1770	562	1N2168	562	1N3073	1104
1N776	1123	1N878	1114	1N944A	563	1N1316	564	1N1770A	562	1N2168A	562	1N3074	1104
1N777	1123	1N879	1104	1N944B	563	1N1337-5	1104	1N1773	563	1N2169	562	1N3075	1104
1N778	1102	1N880	1104	1N945	563	1N1391	1123	1N1773A	563	1N2169A	562	1N3076	1104
1N779	1102	1N881	1104	1N945A	563	1N1406	1104	1N1775	564	1N2170	562	1N3077	1104
1N781	1123	1N881B	1104	1N945B	563	1N1407	1114	1N1775A	564	1N2170A	562	1N3078	1104
1N788	1102	1N882	1104	1N946	563	1N1408	1114	1N1779	561	1N2171	562	1N3079	1104
1N789	1102	1N883	1104	1N946A	563	1N1415	1104	1N1839	1102	1N2171A	562	1N3080	1104
1N789M	1102	1N884	1104	1N946B	563	1N1426	563	1N1840	1102	1N2181	1104	1N3081	1104
1N790	1102	1N885	1104	1N947	1104	1N1427	564	1N1841	1102	1N2217	1104	1N3082	1104
1N790M	1102	1N886	1114	1N948	1102	1N1439	1104	1N1842	1102(2)	1N2218	1104	1N3083	1104
1N791	1102	1N887	1114	1N949	1123	1N1440	1104	1N1843	1102	1N2219	1104	1N3084	1104
1N791M	1102	1N888	1114	1N960	562	1N1441	1104	1N1844	1102	1N2220	1104	1N3094	1104
1N792	1102	1N889	1114	1N960A	562	1N1442	1104	1N1845	1102	1N2221	1104	1N3106	1104
1N792M	1102	1N890	1102	1N960B	562	1N1443	1114	1N1846	1102	1N2267	1104	1N3108	562
1N793	1102	1N891	1102	1N963	563	1N1443A	1114	1N1847	1102	1N2268	1104	1N3110	1123
1N793M	1102	1N892	1102	1N963A	563	1N1448	1102	1N1877	563	1N2269	1104	1N3121	1123
1N794	1102	1N897	1102	1N963B	563	1N1485	561	1N1877A	563	1N2270	1104	1N3122	1123
1N795	1102	1N898	1102	1N965	564	1N1486	1104	1N1878	564	1N2271	1104	1N3123	1102
1N796	1102	1N899	1102	1N965A	564	1N1487	1104	1N1878A	564	1N2289	1104	1N3124	1102
1N797	1102	1N900	1102	1N965B	564	1N1488	1104	1N1907	1104	1N2289A	1104	1N3125	1123
1N798	1102	1N901	1102	1N966	564	1N1489	1104	1N1908	1104	1N2290A	1104	1N3146	1123
1N799	1102	1N902	1102	1N993	1102	1N1490	1104	1N1909	1104	1N2323	1104	1N3147	1102
1N800	1102	1N903	1102	1N994	1123	1N1491	1104	1N1910	1104	1N2326	1123	1N3148	562
1N801	1102	1N903/A	1102	1N995	1102	1N1492	1104	1N1911	1104	1N2373	1104	1N3160	1104
1N802	1102	1N903A	1102	1N996	1123	1N1513	563	1N1912	1104	1N2395	1104	1N3183	1104
1N803	1102	1N903AM	1102	1N997	1102	1N1513A	563	1N1913	1104	1N2396	1104	1N3184	1104
1N804	1102	1N903M	1102	1N998	1104	1N1514	564	1N1933	563	1N2404	1104	1N3189	1104
1N805	1123	1N904	1102	1N999	1102	1N1514A	564	1N1934	564	1N2405	1104	1N3190	1104
1N806	1102	1N904/A	1102	1N1008	1104	1N1524	563	1N1934A	564	1N2413	1104	1N3191	1104
1N807	1102	1N904A	1102	1N1028	1104	1N1524A	563	1N1934B	564	1N2414	1104	1N3193	1104
1N808	1102	1N904AM	1102	1N1029	1104	1N1525	564	1N1960	563	1N2422	1104	1N3194	1104
1N809	1102	1N904M	1102	1N1030	1104	1N1525A	564	1N1960A	563	1N2423	1104	1N3195	1104
1N810	1102	1N905	1102	1N1031	1104	1N1530	562	1N1960B	563	1N2473	1102	1N3196	1114
1N811	1102	1N905/A	1102	1N1032	1104	1N1530A	562	1N1987	563	1N2482	1104	1N3197	1102
1N811M	1102	1N905A	1102	1N1033	1104	1N1543	1104	1N1988	564	1N2483	1104	1N3203	1104
1N812	1102	1N905AM	1102	1N1046	1104	1N1544	1104	1N1988A	564	1N2484	1104	1N3204	1123
1N812M	1102	1N905M	1102	1N1047	1104	1N1553	1104	1N1988B	564	1N2485	1104	1N3206	1102
1N813	1102	1N906	1102	1N1048	1104	1N1554	1104	1N2013	1104	1N2486	1104	1N3207	1102
1N813M	1102	1N906/A	1102	1N1049	1104	1N1555	1104	1N2014	1104	1N2487	1104	1N3221	1114
1N814	1102	1N906A	1102	1N1050	1104	1N1556	1104	1N2015	1104	1N2488	1104	1N3223	1102

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N3227	1104	1N3666	1102	1N4311	1102	1N4828	1102	1N5713	1102	1S75	1123	1S207	1104
1N3228	1104	1N3668	1102	1N4315	1102	1N4829	1102	1N5719	1102	1S76	1123	1S208	1104
1N3229	1104	1N3669	1104	1N4318	1102	1N4830	1102	1N5731	561	1S77	1123	1S208/2SJ2A	1104
1N3230	1104	1N3678	562	1N4322	1102	1N4831	562	1N5735	562	1S78	1123	1S209	1104
1N3237	1104	1N3678A	562	1N4326	562	1N4831A	562	1N5738	563	1S79	1123	1S209/2SJ4A	1104
1N3238	1104	1N3681	563	1N4326A	562	1N4834	563	1N5740	564	1S80	1123	1S210	1114
1N3239	1104	1N3681A	563	1N4326B	562	1N4834A	563	1N5767	1102	1S81	1104	1S210/2SJ6A	1114
1N3240	1104	1N3681B	563	1N4329	563	1N4836	564	1N5858A	563	1S82	1123	1S211	1114
1N3241	1104	1N3683	564	1N4329A	563	1N4836A	564	1N5858B	563	1S83	1104	1S211/2SJ8A	1114
1N3246	1104	1N3683A	564	1N4329B	563	1N4861	1102	1N33974	562	1S84	1102	1S212	562
1N3247	1104	1N3683B	564	1N4331	564	1N4862	1102	1N58080A	2510	1S85V	1104	1S213	562
1N3248	1104	1N3722	1102	1N4331A	564	1N4863	1102	1N70980	1102	1S88	1123	1S214	562
1N3249	1104	1N3748	1104	1N4331B	564	1N4864	1102	1NA4	1123	1S89	1102	1S224	562
1N3250	1104	1N3749	1104	1N4361	1114	1N4896	563	1NA4G	1123	1S90	1104	1S227	563
1N3253	1104	1N3753	1123	1N4363	1102	1N4896A	563	1NC61684	1104	1S91	1104	1S230	564
1N3254	1104	1N3754	1123	1N4364	1104	1N4938	1102	1NJ27	1114	1S92	1104	1S268	1104
1N3255	1104	1N3755	1104	1N4365	1104	1N4949	1102	1NJ33233	1123	1S93	1104	1S268AA	1104
1N3257	1102	1N3756	1104	1N4366	1104	1N4950	1102	1NJ60284	1123	1S93/SGJ	1104	1S268T	1104
1N3258	1102	1N3757	1104	1N4367	1104	1N4951	1102(2)	1NJ61224	1123	1S94	1104	1S301.5	564
1N3277	1104	1N3758	1104	1N4368	1104	1N4952	1102(2)	1NJ61433	1102	1S95	1104	1S306	1102
1N3278	1104	1N3759	1104	1N4369	1104	1N5004	1104	1NJ61675	1123	1S96	1114	1S307	1102
1N3279	1104	1N3773	1123	1N4375	1102	1N5005	1104	1NJ61676	1104	1S97	1114	1S309	1104
1N3280	1114	1N3828	561	1N4376	1102	1N5006	1104	1NJ61677	1102	1S98	1114	1S310	1104
1N3281	1114	1N3828A	561	1N4382	1102	1N5007	1104	1NJ61725	1102	1S99	1114	1S311	1104
1N3282	1114	1N3855A	562	1N4383	1104	1N5054	1114	1NJ61726	1104	1S99A	1102	1S312	1104
1N3287	1123	1N3864	1102	1N4384	1104	1N5054A	1114	1NJ70973	1123	1S100	1104	1S313	1104
1N3287N	1123	1N3866	1104	1N4385	1104	1N5055	1104	1NJ70980	1102	1S101	1104	1S314	1104
1N3287W	1123	1N3867	1104	1N4389	1102(2)	1N5056	1104	1NJ71126	1104	1S102	1104	1S315	1104
1N3298	1104	1N3868	1104	1N4392	1102	1N5057	1104	1NJ71185	1123	1S103	1104	1S318	1123
1N3403	563	1N3872	1102	1N4395	1102	1N5058	1104	1NJ71186	1104	1S104	1104	1S322	1102
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1ZB12	563
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1ZC12T20	563
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1ZC15T10	564
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 # Type with same number, but with slightly different specifications (usually case style).

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2SA12	2007	2SA92K	2004	2SA109OR	2004	2SA149	2007	2SA257L	2004	2SA361M	2004	2SA472L	2004
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2SA14	2007	2SA92OR	2004	2SA109Y	2004	2SA154	2003	2SA257X	2004	2SA361X	2004	2SA472R	2004
2SA15RD	2004	2SA92R	2004	2SA110A	2004	2SA155	2003	2SA257Y	2004	2SA361Y	2004	2SA472X	2004
2SA19	2003	2SA92X	2004	2SA110B	2004	2SA156	2003	2SA258	2003	2SA363	2005	2SA472Y	2004
2SA20	2003	2SA92Y	2004	2SA110C	2004	2SA157	2003	2SA258A	2004	2SA368A	2004	2SA473B	2007
2SA21	2003	2SA93A	2004	2SA110D	2004	2SA159	2003	2SA258B	2004	2SA368B	2004	2SA475	2004
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2SA25	2004	2SA93E	2004	2SA110G	2004	2SA168	2007	2SA258E	2004	2SA368E	2004	2SA480	2034
2SA26	2007	2SA93F	2004	2SA110K	2004	2SA168A	2007	2SA258F	2004	2SA368F	2004	2SA494-O	2034
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2SA29	2003	2SA93H	2004	2SA110M	2004	2SA170	2007	2SA258GN	2004	2SA368GN	2004	2SA494O	2022
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2SA33	2007	2SA93L	2004	2SA110R	2004	2SA172	2007	2SA258J	2004	2SA368J	2004	2SA495	2034
2SA36	2007	2SA93M	2004	2SA110X	2004	2SA172A	2007	2SA258K	2004	2SA368K	2004	2SA495-O	2034
2SA37	2007	2SA93OR	2004	2SA110Y	2004	2SA173	2007	2SA258L	2004	2SA368L	2004	2SA495-ORG	2034
2SA39	2007	2SA93R	2004	2SA111A	2004	2SA176	2003	2SA258M	2004	2SA368M	2004	2SA495-ORG-G	2034
2SA40	2007	2SA93X	2004	2SA111B	2004	2SA178	2003	2SA258OR	2004	2SA368OR	2004	2SA495-R	2034
2SA44	2007	2SA93Y	2004	2SA111C	2004	2SA181	2007	2SA258R	2004	2SA368R	2004	2SA495-RED	2034
2SA45	2007	2SA101D	2004	2SA111D	2004	2SA182	2007	2SA258X	2004	2SA368X	2004	2SA495-RED-G	2034
2SA47	2007	2SA101F	2004	2SA111E	2004	2SA184	2007	2SA258Y	2004	2SA368Y	2004	2SA495G	2034
2SA48	2007	2SA101G	2004	2SA111F	2004	2SA189	2007	2SA259	2003	2SA380A	2004	2SA495G-O	2034
2SA49	2007	2SA101H	2004	2SA111G	2004	2SA194	2007	2SA270A	2004	2SA380B	2004	2SA495G-R	2034
2SA49G	2007	2SA101K	2004	2SA111K	2004	2SA195	2007	2SA270B	2004	2SA380C	2004	2SA499	2023
2SA52	2007	2SA101L	2004	2SA111L	2004	2SA196	2007	2SA270C	2004	2SA380D	2004	2SA499-R	2023
2SA52G	2007	2SA101M	2004	2SA111M	2004	2SA197	2007	2SA270D	2004	2SA380E	2004	2SA499-RED	2023
2SA53	2007	2SA101OR	2004	2SA111OR	2004	2SA198	2003	2SA270E	2004	2SA380F	2004	2SA500	2034
2SA55	2007	2SA101R	2004	2SA111R	2004	2SA199	2003	2SA270F	2004	2SA380G	2004	2SA500-O	2034
2SA56A	2032	2SA102H	2007	2SA111X	2004	2SA200	2003	2SA270G	2004	2SA380GN	2004	2SA500-ORG	2034
2SA57	2003	2SA103(CA)	2007	2SA111Y	2004	2SA201	2007	2SA270GN	2004	2SA380H	2004	2SA500-R	2034
2SA59	2003	2SA103CB	2004	2SA112A	2004	2SA201-N	2007	2SA270H	2004	2SA380J	2004	2SA500-RED	2034
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2SA59D	2004	2SA104C	2004	2SA112E	2004	2SA203	2007	2SA270M	2004	2SA380OR	2004	2SA524	2034
2SA59E	2004	2SA104E	2004	2SA112F	2004	2SA204	2007	2SA270OR	2004	2SA380R	2004	2SA542	2034
2SA59F	2004	2SA104F	2004	2SA112G	2004	2SA205	2007	2SA270R	2004	2SA380X	2004	2SA543	2034
2SA59G	2004	2SA104G	2004	2SA112GN	2004	2SA206	2007	2SA270X	2004	2SA380Y	2004	2SA549AH	2021
2SA59L	2004	2SA104H	2004	2SA112H	2004	2SA207	2007	2SA270Y	2004	2SA385C	2004	2SA550A(Q)	2032
2SA59M	2004	2SA104K	2004	2SA112K	2004	2SA208	2007	2SA277	2007	2SA387	2005	2SA550A(R)	2032
2SA59OR	2004	2SA104L	2004	2SA112L	2004	2SA209	2007	2SA278	2007	2SA391	2007	2SA550A(R,Q,S	2032
2SA59R	2004	2SA104M	2004	2SA112M	2004	2SA210	2007	2SA279	2007	2SA392	2007	2SA550A(S)	2032
2SA59X	2004	2SA104OR	2004	2SA112OR	2004	2SA211	2007	2SA281C	2031	2SA405-O	2004	2SA553	2023
2SA59Y	2004	2SA104R	2004	2SA112R	2004	2SA212	2007	2SA282	2007	2SA414	2007	2SA554	2023
2SA65	2007	2SA104X	2004	2SA112X	2004	2SA217	2007	2SA283	2007	2SA415	2007	2SA556	2034
2SA70-08	2004	2SA104Y	2004	2SA112Y	2004	2SA218	2003	2SA284	2007	2SA419	2003	2SA557	2023
2SA70-0B	2004	2SA105	2003	2SA113A	2004	2SA220	2003	2SA285	2003	2SA421	2003	2SA558	2034

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2SA559	2034	2SB257	2007	2SC25	2009	2SC82R	2011	2SC148GN	2013	2SC183S	2009	2SC206E	2013
2SA559A	2034	2SB264	2007	2SC26	2009	2SC83	2011	2SC148H	2013	2SC183W	2038	2SC206G	2013
2SA560A	2032	2SB266	2005	2SC27	2009	2SC87	2009	2SC148J	2013	2SC184	2016	2SC206GN	2013
2SA561Y	2032	2SB267	2005	2SC28	2016	2SC89	2001	2SC148K	2013	2SC184(R)	2031	2SC206H	2013
2SA562	2023	2SB269	2005	2SC29	2016	2SC90	2001	2SC148L	2013	2SC184A	2013	2SC206J	2013
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2SA564A(S)	2032	2SB292	2007	2SC36	2001	2SC103A	2009	2SC150	2030	2SC184E	2009	2SC206X	2013
2SA565K	2022	2SB292A	2007	2SC37	2016	2SC104	2015	2SC150A	2013	2SC184F	2013	2SC206Y	2013
2SA608	2034	2SB293	2007	2SC38	2038	2SC104A	2016	2SC150B	2013	2SC184G	2013	2SC207	2011
2SA608(D)	2009	2SB294	2007	2SC38A	2009	2SC105	2016	2SC150C	2013	2SC184GN	2013	2SC208	2011
2SA608(F)	2009	2SB299	2007	2SC38Y	2009	2SC109	2030	2SC150D	2013	2SC184H	2038	2SC208A	2009
2SA608D(F)	2032	2SB302	2007	2SC39	2016	2SC110	2030	2SC150E	2013	2SC184J	2038	2SC209	2011
2SA609	2034	2SB303	2007	2SC39A	2016	2SC111	2030	2SC150F	2013	2SC184K	2013	2SC210	2030
2SA616(1,2)	2043	2SB314	2007	2SC40	2038	2SC114	2030	2SC150G	2013	2SC184L	2038	2SC211	2030
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2SA678C	2032	2SB323	2007	2SC49Y	2041	2SC122D	2009	2SC150L	2013	2SC184X	2013	2SC221	2030
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2SA733(P)	2032	2SB336	2007	2SC52	2009	2SC128	2001	2SC150T	2030	2SC185J	2038	2SC237	2038
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2SA778AK	2021	2SB349	2005	2SC55	2016	2SC131	2033	2SC151	2030	2SC185R	2038	2SC241	2041
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2SB43	2007	2SB396	2007	2SC55OR	2013	2SC134K	2013	2SC159GN	2013	2SC195D	2013	2SC268	2008
2SB44	2007	2SB400	2007	2SC55R	2013	2SC134L	2013	2SC159H	2013	2SC195E	2013	2SC268A	2008
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2SB112	2007	2SC16A	2016	2SC74C	2013	2SC137L	2013	2SC174	2016	2SC197F	2013	2SC288B	2011
2SB113	2007	2SC17	2015	2SC74D	2013	2SC137M	2013	2SC174A	2016	2SC197G	2013	2SC289	2038
2SB114	2007	2SC17A	2015	2SC74E	2013	2SC137OR	2013	2SC175	2001	2SC197GN	2013	2SC294	2016
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2SB116	2007	2SC17C	2013	2SC74G	2013	2SC137X	2013	2SC176	2001	2SC197J	2013	2SC296	2016
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2SB154	2007	2SC17G	2013	2SC74K	2013	2SC138S	2009	2SC182	2016	2SC197OR	2013	2SC302	2016
2SB154C	2009	2SC17GN	2013	2SC74L	2013	2SC139	2009	2SC182(V)	2009	2SC197R	2013	2SC-313	2011
2SB155	2007	2SC17H	2013	2SC74M	2013	2SC141	2016	2SC182Q	2038	2SC197X	2013	2SC313	2015
2SB161	2007	2SC17J	2013	2SC74R	2013	2SC142	2016	2SC183	2031	2SC197Y	2013	2SC315	2009
2SB163	2007	2SC17K	2013	2SC74X	2013	2SC143	2016	2SC183(P)	2031	2SC198H	2041	2SC317	2009
2SB165	2007	2SC17L	2013	2SC74Y	2013	2SC144	2016	2SC183(Q)(R)	2031	2SC200	2038	2SC317C	2009
2SB168	2007	2SC17M	2013	2SC75	2001	2SC144A	2016	2SC183(R)	2009	2SC201	2038	2SC318	2016
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2SB175(A)	2007	2SC17R	2013	2SC77	2001	2SC146	2016	2SC183E	2038	2SC203	2016	2SC319	2009
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2SB192	2007	2SC21	2041	2SC82BN	2011	2SC148G	2013	2SC183R	2038	2SC206D	2013	2SC322	2016

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2SC323	2016	2SC369V	2009	2SC374Y	2013	2SC381-R	2016	2SC389H	2014	2SC400-O	2016	2SC430J	2013
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2SC356	2016	2SC372-ORG-G	2016	2SC380-RED	2016	2SC384J	2013	2SC395A-R	2009	2SC404X	2013	2SC458(LG)	2009
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC460R	2013	2SC472G	2013	2SC534	2016	2SC544Y	2013	2SC606A	2013	2SC645R	2013	2SC682J	2013
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2SC466C	2013	2SC500C	2012	2SC538AQ	2009	2SC563M	2013	2SC629OR	2013	2SC668(C)	2030	2SC705	2011
2SC466D	2013	2SC500D	2012	2SC538AR	2013	2SC563OR	2013	2SC629R	2013	2SC668(D)	2011	2SC705B	2011
2SC466E	2013	2SC500E	2012	2SC538P	2009	2SC563R	2013	2SC629X	2013	2SC668-0	2013	2SC705C	2011
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC711C	2013	2SC744	2030	2SC772KD1	2013	2SC793GN	2041	2SC837L	2011	2SC871GN	2013	2SC921Y	2013
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2SC739Y	2013	2SC772KB	2013	2SC793E	2041	2SC837J	2013	2SC871E	2009	2SC921R	2013	2SC933D(F)	2009
2SC740	2015	2SC772KC	2013	2SC793F	2041	2SC837K	2011	2SC871F	2009	2SC921W	2013	2SC933E	2009
2SC741	2009	2SC772KD	2013	2SC793G	2041	2SC837KL	2013	2SC871G	2009	2SC921X	2013	2SC933E(F)	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC933F	2009	2SC1000-Y	2009	2SC1047GR	2013	2SC1217	2012	2SC1359C	2013	2SC1740Q	2009	2SC8290	2009
2SC933FP	2009	2SC1007	2009	2SC1047H	2013	2SC1235G	2009	2SC1360	2011	2SC1766	2016	2SC9011E	2009
2SC933FPC	2009	2SC1009	2016	2SC1047J	2013	2SC1237	2020	2SC1361	2016	2SC1766C	2016	2SC9011F	2009
2SC933FPD	2009	2SC1023	2015	2SC1047K	2013	2SC1237E	2020	2SC1362	2016	2SC1777	2041	2SC9011H	2009
2SC933FPE	2009	2SC1023(O)	2030	2SC1047L	2013	2SC1240	2038	2SC1363	2009	2SC1778	2038	2SC10898	2012
2SC933FPF	2009	2SC1023-O	2011	2SC1047M	2013	2SC1244	2009	2SC1364	2009	2SC1779	2015	2SC13901	2009
2SC933FPG	2009	2SC1023-Y	2011	2SC1047R	2013	2SC1254	2038	2SC1364-6	2009	2SC1780	2031	2SCF1A	2013
2SC933G	2009	2SC1023A	2013	2SC1047X	2013	2SC1260	2015	2SC1364A	2009	2SC1789	2031	2SCF1B	2013
2SC934-O	2009	2SC1023B	2013	2SC1047Y	2013	2SC1274	2033	2SC1372	2016	2SC1790	2031	2SCF1C	2013
2SC934C	2009	2SC1023C	2013	2SC1054	2038	2SC1293	2016	2SC1372Y	2009	2SC1816	2020	2SCF1D	2013
2SC934D	2009	2SC1023D	2013	2SC1062	2008	2SC1293(3RD-IF)	2010	2SC1373	2016	2SC1854	2013	2SCF1E	2013
2SC934E	2009	2SC1023E	2013	2SC1063	2012	2SC1293(A)	2013	2SC1374	2016	2SC1854C	2013	2SCF1F	2013
2SC934F	2009	2SC1023F	2013	2SC1066	2011	2SC1293A(LAST-IF)	2010	2SC1374H	2038	2SC1854S	2013	2SCF1G	2013
2SC934G	2009	2SC1023G	2011	2SC1067	2016	2SC1293B(3RD-IF)	2010	2SC1375	2016	2SC1855	2013	2SCF1GN	2013
2SC934P	2009	2SC1023GN	2013	2SC1071	2016	2SC1293B(FINAL-IF)		2SC1376	2016	2SC1908	2009	2SCF1H	2013
2SC934Q	2009	2SC1023H	2013	2SC1089B	2012		2010	2SC1377	2020	2SC1908E	2011	2SCF1J	2013
2SC938	2009	2SC1023J	2013	2SC1089C	2012	2SC1293B(LAST-IF)	2010	2SC1385H	2030	2SC1919C	2011	2SCF1K	2013
2SC938-O	2009	2SC1023K	2013	2SC1090	2013	2SC1293C	2010	2SC1390	2009	2SC1923	2016	2SCF1L	2013
2SC938A	2009	2SC1023L	2013	2SC1106(K)	2041	2SC1293C(3RD-IF)	2010	2SC1390(L,Y)	2031	2SC1923A	2013	2SCF1M	2013
2SC938B	2009	2SC1023M	2013	2SC1106(L)	2041	2SC1293D	2010	2SC1390(V)	2009	2SC2012	2009	2SCF1OR	2013
2SC938C	2009	2SC1023OR	2013	2SC1106(M)	2041	2SC-1307	2020	2SC1390(W)	2009	2SC2076	2010	2SCF1R	2013
2SC938R	2009	2SC1023R	2013	2SC1123	2011	2SC1307	2020	2SC1390(X)	2009	2SC2076C	2010	2SCF1X	2013
2SC939I	2041	2SC1023X	2013	2SC1123A	2013	2SC1307-1	2020	2SC1390(Y)	2009	2SC2076CB	2010	2SCF1Y	2013
2SC941	2016	2SC1023Y	2013	2SC1123B	2013	2SC1312E	2009	2SC1390I	2009	2SC2076CD	2010	2SCF-2	2009
2SC941-O	2016	2SC1026	2031	2SC1123C	2013	2SC1318(P,R)	2010	2SC1390I(W)	2009	2SC2076D	2010	2SCF2	2009
2SC941-OY	2010	2SC1026(G)	2030	2SC1123D	2013	2SC1318(Q)	2010	2SC1390IW	2009	2SC2818	2009	2SCF2A	2013
2SC941-R	2016	2SC1026-R	2013	2SC1123E	2013	2SC1318A	2010	2SC1390J	2009	2SC2884	2011	2SCF2B	2013
2SC941-Y	2009	2SC1026D	2013	2SC1123F	2013	2SC1318B	2010	2SC1390J(X)	2009	2SC3710	2009	2SCF2C	2013
2SC941K	2009	2SC1026E	2013	2SC1123GN	2013	2SC1318C	2010	2SC1390JX	2009	2SC3720	2013	2SCF2D	2013
2SC941R	2009	2SC1026F	2013	2SC1123H	2013	2SC1318E	2010	2SC1390K	2009	2SC3720A	2013	2SCF2E	2013
2SC942	2038	2SC1026G	2011	2SC1123J	2013	2SC1318F	2010	2SC1390L	2009	2SC3720B	2013	2SCF2G	2013
2SC943	2009	2SC1026GN	2013	2SC1123K	2013	2SC1318G	2010	2SC1390V	2009	2SC3720C	2013	2SCF2GN	2013
2SC943A	2009	2SC1026H	2013	2SC1123L	2013	2SC1318GN	2010	2SC1390W	2009	2SC3720D	2013	2SCF2H	2013
2SC943B	2009	2SC1026J	2013	2SC1123M	2013	2SC1318H	2010	2SC1390WH	2009	2SC3720F	2013	2SCF2J	2013
2SC943C	2009	2SC1026K	2013	2SC1123OR	2013	2SC1318J	2010	2SC1390WI	2009	2SC3720G	2013	2SCF2K	2013
2SC944	2009	2SC1026L	2013	2SC1123R	2013	2SC1318K	2010	2SC1390WX	2009	2SC3720GN	2013	2SCF2L	2013
2SC944K	2009	2SC1026M	2013	2SC1123X	2013	2SC1318L	2010	2SC1390X	2009	2SC3720H	2013	2SCF2M	2013
2SC945	2016	2SC1026OR	2013	2SC1123Y	2013	2SC1318M	2010	2SC1390XJ	2009	2SC3720J	2013	2SCF2R	2013
2SC945(K)	2009	2SC1026R	2013	2SC1126	2015	2SC1318S,R	2010	2SC1390XK	2009	2SC3720K	2013	2SCF2X	2013
2SC945(P)	2009	2SC1026X	2013	2SC1126A	2013	2SC1318X	2010	2SC1390Y	2009	2SC3720L	2013	2SCF2Y	2013
2SC945(TK,P)	2009	2SC1026Y	2011	2SC1126B	2013	2SC1318Y	2010	2SC1390YM	2009	2SC3720OR	2013	2SCF5	2009
2SC945(TP)	2009	2SC1030B2C	2041	2SC1126E	2013	2SC1320(K)	2013	2SC1393	2009	2SC3720R	2013	2SC-F6	2009
2SC945(TQ,Q)	2009	2SC1032	2016	2SC1126F	2013	2SC1320A	2013	2SC1394	2011	2SC3720X	2013	2SC-F11	2013
2SC947	2015	2SC1032(Y)	2030	2SC1126GN	2013	2SC1320B	2013	2SC1395	2011	2SC3720Y	2013	2SCF11	2038
2SC948	2015	2SC1032A	2013	2SC1126J	2013	2SC1320C	2013	2SC1396	2015	2SC3724	2009	2SC-F11A	2013
2SC957	2038	2SC1032B	2013	2SC1126K	2013	2SC1320D	2013	2SC1409	2012	2SC3800	2013	2SC-F11B	2013
2SC962	2041	2SC1032BL	2013	2SC1126L	2013	2SC1320E	2013	2SC1409A	2012	2SC3800A	2013	2SC-F11C	2013
2SC963	2016	2SC1032C	2013	2SC1126M	2013	2SC1320F	2013	2SC1409AB	2012	2SC3800B	2013	2SC-F11D	2013
2SC964	2016	2SC1032D	2013	2SC1126OR	2013	2SC1320G	2013	2SC1409B	2012	2SC3800C	2013	2SC-F11E	2013
2SC966	2009	2SC1032E	2013	2SC1126R	2013	2SC1320GN	2013	2SC1409C	2012	2SC3800D	2013	2SC-F11F	2013
2SC967	2009	2SC1032F	2013	2SC1126X	2013	2SC1320H	2013	2SC1411	2031	2SC3800E	2013	2SC-F11G	2013
2SC968	2009	2SC1032G	2011	2SC1126Y	2013	2SC1320J	2013	2SC1417	2016	2SC3800F	2013	2SC-F11GN	2013
2SC968P	2009	2SC1032GN	2013	2SC1128(3RD-IF)	2010	2SC1320K	2011	2SC1417(V,G)	2009	2SC3800G	2013	2SC-F11H	2013
2SC971A	2013	2SC1032H	2013	2SC1128(FINAL-IF)	2010	2SC1320L	2013	2SC1417(W)	2009	2SC3800GN	2013	2SC-F11J	2013
2SC971B	2013	2SC1032J	2013	2SC1128-O	2013	2SC1320M	2013	2SC1417C	2011	2SC3800H	2013	2SC-F11K	2013
2SC971C	2013	2SC1032K	2013	2SC1128A	2013	2SC1320OR	2013	2SC1417D	2011	2SC3800J	2013	2SC-F11L	2013
2SC971D	2013	2SC1032L	2013	2SC1128B	2013	2SC1320R	2013	2SC1417D(U)	2011	2SC3800K	2013	2SC-F11M	2013
2SC971E	2013	2SC1032M	2013	2SC1128BL	2013	2SC1320X	2013	2SC1417DU	2011	2SC3800L	2013	2SC-F11OR	2013
2SC971F	2013	2SC1032OR	2013	2SC1128C	2013	2SC1320Y	2013	2SC1417F	2011	2SC3800M	2013	2SC-F11R	2013
2SC971G	2013	2SC1032R	2013	2SC1128D	2009	2SC1324	2009	2SC1417G	2011	2SC3800OR	2013	2SC-F11X	2013
2SC971GN	2013	2SC1032X	2013	2SC1128G	2013	2SC1324(C)	2009	2SC1417H	2011	2SC3800R	2013	2SC-F11Y	2013
2SC971H	2013	2SC1032Y	2011	2SC1128M	2013	2SC1324C	2009	2SC1417U	2011	2SC3800X	2013	2SC-F14	2013
2SC971J	2013	2SC1033	2009	2SC1128R	2013	2SC1327S	2016	2SC1417V	2011	2SC3800Y	2013	2SCF14	2010
2SC971K	2013	2SC1033A	2009	2SC1128S	2013	2SC1331	2038	2SC1417VF	2009	2SC3854	2011	2SC-F14A	2013
2SC971L	2013	2SC1035	2038	2SC1128S(3RDIF)	2010	2SC1335	2016	2SC1417VW	2011	2SC3940	2013	2SC-F14B	2013
2SC971M	2013	2SC1035A	2014	2SC1128Y	2013	2SC1335G	2010	2SC1417W	2011	2SC3940A	2013	2SC-F14C	2013
2SC971OR	2013	2SC1035B	2014	2SC1129	2016	2SC1335GN	2010	2SC1424	2015	2SC3940B	2013	2SC-F14D	2013
2SC971R	2013	2SC1035F	2014	2SC1129-0	2013	2SC1335H	2010	2SC1428	2016	2SC3940C	2013	2SC-F14E	2013
2SC971X	2013	2SC1035GN	2014	2SC1129A	2013	2SC1335J	2010	2SC1542	2009	2SC3940D	2013	2SC-F14F	2013
2SC971Y	2013	2SC1035H	2014	2SC1129B	2013	2SC1335K	2010	2SC1543	2010	2SC3940E	2013	2SC-F14G	2013
2SC983-R	2012	2SC1035J	2014	2SC1129BL	2013	2SC1335L	2010	2SC1544	2010	2SC3940F	2013	2SC-F14GN	2013
2SC983Y	2012	2SC1035L	2014	2SC1129C	2013	2SC1335M	2010	2SC1547	2015	2SC3940G	2013	2SC-F14H	2013
2SC984	2009	2SC1035M	2014	2SC1129G	2013	2SC1335OR	2010	2SC1550-1	2012	2SC3940GN	2013	2SC-F14J	2013
2SC984A	2009	2SC1035OR	2014	2SC1129Y	2013	2SC1335R	2010	2SC1571	2016	2SC3940H	2013	2SC-F14K	2013
2SC984B	2009	2SC1035R	2014	2SC1152(F)	2041	2SC1335X	2010	2SC1571L	2016	2SC3940J	2013	2SC-F14L	2013
2SC984C	2009	2SC1035X	2014	2SC1159	2011	2SC1335Y	2010	2SC1585F	2011	2SC3940K	2013	2SC-F14M	2013
2SC985	2031	2SC1035Y	2014	2SC1173(R.F.PWR)	2020	2SC1342	2015	2SC1585F,H	2011	2SC3940L	2013	2SC-F14OR	2013
2SC985A	2013	2SC1036	2038	2SC1173X(RF-PWR)	2020	2SC1342(A)	2009	2SC1585H	2011	2SC3940M	2013	2SC-F14R	2013
2SC987	2031	2SC1036A	2014	2SC1175	2009	2SC1342(B)	2009	2SC1589	2018	2SC3940OR	2013	2SC-F14X	2013
2SC987A	2031	2SC1036B	2014	2SC1175C	2009	2SC1342(C)	2009	2SC1618	2041	2SC3940R	2013	2SC-F14Y	2013
2SC988	2031	2SC1036C	2014	2SC1175D	2009	2SC1342A	2013	2SC1618B	2041	2SC3940X	2013	2SCM39J	2013
2SC988A	2031	2SC1036D	2014	2SC1175E,D,F	2009	2SC1342B	2013	2SC1621	2016	2SC3940Y	2013	2SCM39X	2013
2SC988B	2031	2SC1036E	2014	2SC1175F	2009	2SC1342C	2013	2SC1623	2016	2SC-4033	2013	2SCM93D	2041
2SC991	2009	2SC1036F	2014	2SC1182	2013	2SC1342D	2013	2SC1634	2009	2SC4033A	2013	2SCS183E	2009
2SC992	2009	2SC1036G	2014	2SC1187	2013	2SC1342E	2013	2SC1639	2009	2SC4033B	2013	2SCS184E	2009
2SC993	2016	2SC1036GN	2014	2SC1205	2016	2SC1342F	2013	2SC1641	2009	2SC4033C	2013	2SCS429	2013
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2SC994	2038	2SC1036J	2014	2SC1214(B)	2009	2SC1342GN	2013	2SC1641R	2009	2SC4033E	2013	2SCS429B	2013
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2SC997D	2013	2SC1036OR	2014	2SC1215E	2013	2SC1342L	2013	2SC1674L	2013	2SC4033H	2013	2SCS429F	2013
2SC997E	2013	2SC1036R	2014	2SC1215F	2013	2SC1342M	2013	2SC1674M	2013	2SC4033J	2013	2SCS429G	2013
2SC997F	2013	2SC1036X	2014	2SC1215G	2013	2SC1342OR	2013	2SC1675	2016	2SC4033K	2013	2SCS429GN	2013
2SC997G	2013	2SC1036Y	2014	2SC1215GN	2013	2SC1342R	2013	2SC1675K	2013	2SC4033L	2013	2SCS429H	2013
2SC997GN	2013	2SC1044	2038	2SC1215H	2013	2SC1342X	2013	2SC1675L	2013	2SC4033M	2013	2SCS429K	2013
2SC997H	2013	2SC1047	2015	2SC1215J	2013	2SC1342Y	2013	2SC1675M	2013	2SC4033OR	2013	2SCS429L	2013
2SC997J	2013	2SC1047A	2013	2SC1215K	2013	2SC1344	2016	2SC1686	2013	2SC4033R	2013	2SCS429M	2013
2SC997K	2013	2SC1047BCD	2013	2SC1215L	2013	2SC1345(E)	2009	2SC1687	2009	2SC4033X	2013	2SCS429OR	2013
2SC997L	2013	2SC1047C	2013	2SC1215M	2013	2SC1359	2013	2SC1688	2009	2SC4033Y	2013	2SCS429R	2013
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2SC997R	2013	2SC1047F	2013	2SC1215X	2013	2SC1359(C,B)	2014	2SC1730L	2030	2SC7108B	2009	2SCS430	2013
2SC997X	2013	2SC1047G	2013	2SC1215Y	2013	2SC1359A	2013	2SC1739	2009	2SC7335-BL	2009	2SCS430A	2013
2SC997Y	2013	2SC1047GN	2013	2SC1216	2013	2SC1359B	2013	2SC1740P	2009	2SC7354	2009	2SCS430B	2013

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2SCS430C	2013	2SD151E	2041	2SK17R	2035	2SK304	2035	2XAA111	1123	3N29	2001	4-2020-06800	1104
2SCS430D	2013	2SD151F	2041	2SK17Y	2035	2SK491	2035	2XAA112	1123	3N30	2001	4-2020-07300	1104
2SCS430E	2013	2SD151G	2041	2SK19	2035	2SR1K	1104	2XAA113	1123	3N31	2001	4-2020-07500	561
2SCS430F	2013	2SD151GN	2041	2SK19(BL)	2036	2SR24	2035	3-0033	2009	3N34	2016	4-2020-07600	1104
2SCS430GN	2013	2SD151H	2041	2SK19(GR)	2035	2SR68AM	2036	3A90	1123	3N35	2016	4-2020-07601	1104
2SCS430J	2013	2SD151J	2041	2SK19BL	2035	2T15X3	2011	3A152	1104	3N36	2001	4-2020-07700	1104
2SCS430K	2013	2SD151K	2041	2SK19FET	2036	2T40	2009	3A154	1104	3N37	2001	4-2020-08001	1102
2SCS430L	2013	2SD151L	2041	2SK19GB	2036	2T41	2009	3A156	1104	3N71	2015	4-2020-08200	1102
2SCS430M	2013	2SD151M	2041	2SK19GC	2035	2T42	2009	3A158	1114	3N72	2015	4-2020-08500	1104
2SCS430R	2013	2SD151OR	2041	2SK19GE	2035	2T43	2009	3A-200	1114	3N73	2015	4-2020-08900	1104
2SCS430X	2013	2SD151R	2041	2SK19GR	2035	2T44	2009	3A200	1104	3N87	2011	4-2020-8000	1114
2SCS430Y	2013	2SD151Y	2041	2SK19K	2036	2T51	2001	3A252	1104	3N88	2011	4-2020-8700	1114
2SCS461	2013	2SD161	2001	2SK19V	2036	2T52	2001	3A254	1104	3N90	2022	4-2020-10100	1102
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2SCS461B	2013	2SD163	2041	2SK22Y	2035	2T54	2001	3A258	1114	3N92	2022	4-2020-12400	563
2SCS461C	2013	2SD164	2041	2SK23	2036	2T55	2001	3A1510	1114	3N93	2022	4-2020-12700	564
2SCS461D	2013	2SD167	2001	2SK23A	2035	2T56	2001	3A2510	1114	3N94	2022	4-2020-13600	1104
2SCS461E	2013	2SD172	2041	2SK23A-40	2036	2T57	2001	3AS1	1104	3N95	2022	4-2020-14500	1104
2SCS461G	2013	2SD173	2041	2SK2	2036	2T58	2001	3AS2	1104	3N114	2022	4-2020-156[illegible]	1102
2SCS461GN	2013	2SD174	2041	2SK24DR	2035	2T61	2001	3BB-20801	1104	3N115	2022	4-2020-16200	1102
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2SCS461J	2013	2SD176	2041	2SK25	2035	2T63	2001	3BS2	1104	3N117	2022	4-2021-04970	1104
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2SCS461M	2013	2SD187	2002	2SK25E	2035	2T65	2001	3CS2	1104	3N120	2011	4-2021-05870	1123
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2SCS461Y	2013	2SD188C	2041	2SK30	2035	2T67	2001	3E-2	2009	3N129	2022	4-2021-09370	1104
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2SCS469A	2013	2SD195A	2001	2SK30-0	2035	2T71	2001	3E-4	1123	3N131	2022	4-2021-10470	1104
2SCS469B	2013	2SD198(H)	2041	2SK30-O	2035	2T72	2001	3E-64	1104	3N132	2022	4-2040-08000	1102
2SCS469C	2013	2SD198(Q)	2041	2SK30-R	2035	2T73	2001	3E-65	1104	3N133	2023	4-3033	1104
2SCS469D	2013	2SD198(R)	2041	2SK30A	2035	2T73R	2001	3ES1	1104	3N134	2022	4-3034	1102
2SCS469E	2013	2SD201	2041	2SK30A(D)	2035	2T74	2001	3ES2	1104	3N135	2022	4-5145	2009
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2SCS469J	2013	2SD201Y	2041	2SK30A-Y	2035	2T76R	2001	3G8	1104	3SB629	1104	4-68697-3	1114
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2SCS469M	2013	2SD215	2001	2SK30GR	2035	2T78	2001	3G156	1104	3SK30	2035	4-686116-3	1104
2SCS469R	2013	2SD227	2033	2SK30R	2035	2T78R	2001	3G158	1114	3SK30A	2035	4-686132-3	2009
2SCS469X	2013	2SD227(R)	2030	2SK30Y	2035	2T82	2001	3G252	1104	3SK30C	2035	4-686139-3	1114
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2SD119A	2041	2SK12-R	2035	2SK55	2036	2V482	2007	3L4-6015-01	2009	4-1790	2009	4J24X539	563
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2SD119C	2041	2SK13	2035	2SK55DE	2036	2V484	2007	3L46007-2	2009	4-2020	1123	4JA2X355	1104
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2SD130-YEL	2020	2SK15-O	2035	2SK55R	2036	2V631	2007	3MS10	1104	4-2020-03200	1104	4JA4DX520	1104
2SD131	2041	2SK15-R	2035	2SK61	2035	2V632	2007	3MS20	1104	4-2020-03500	1123	4JA6MR700	1104
2SD134	2009	2SK15-Y	2035	2SK68	2035	2V633	2007	3MS30	1104	4-2020-03571	1123	4JA10DX3	1104
2SD146	2041	2SK17	2035	2SK68A	2035	2W3A	1104	3MS40	1104	4-2020-03600	1123	4JA10DX32	1104
2SD147	2041	2SK17(O)	2035	2SK68AM	2035	2W4A	1104	3MS50	1104	4-2020-03900	1114	4JA10EX3	1104
2SD151	2041	2SK17-0	2035	2SK68M	2035	2W5A	1104	3N22	2001	4-2020-05200	1104	4JA16MR700M	1114
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		2SK17GR	2035	2SK170R	2035	2X9A116	1104	3N23C	2001	4-2020-06400	1102	4JD1A17	2007

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
4JD3B1	2001	5A6D	1104	6M404-3	1104	8-697-020-570	2009	8A11667	1104	10B553-3	2016	11/1592	1104
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4JX16A668/G	2030	5E6	1104	7-0015	2009	8-905-305-318	1123	9-5225	2009	10D1	1104	11-1592	1104
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4JX16A668G	2009	5GA	1104	7-3(SARKES)	2009	8-905-305-336	1123	9-5296	2009	10D-2B-4	1104	11-120007	1104
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4JX16A6670	2009	5GJ/FR1N	1104	7-11(STANDEL)	1114	8-905-305-555	1123	9D13	1102	10D5	1104	11J2	1104
4JX16A6680	2009	5GJFR1N	1104	7-12	2041	8-905-305-561	1123	9D14	1102	10D5B	1104	11J2F	1104
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4JX16B670B	2009	5H750M	1104	7-15(SARKES)	2009	8-905-313-011	1123	9DI1	1102	10D6	1104	12-085009	1123
4JX16B670G	2009	5J-F1	1104	7-15(STANDEL)	1114	8-905-313-100	1123	9DI3	1102	10D6D	1104	12-085029	1123
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4JZ4X539	563	5MS5	1104	7-22	2011	8-905-405-134	1104	9TR10	2009	10DC0H	1104	12-1-70-12	2009
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229-5100-231	1123
229-5100-232	1104
229-5100-233	1104
230-0006	1123
230-0014	1102

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2148-17	1104	2495	2011	3514(WARDS)	2009	3704	561	4686-179-3	1114	5001-131	561	5632-W03B	1104
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2180-153	2009	2496-125-2	2009	3520	563	3819(RCA)	2035	4686-201-3	1114	5001-152	562	5923	1104
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46775-2	2001
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A95-5281	1104	A278	2012	A692T5-0	1104	A2473	1123	A-B1000-162	1101	AM65	1104	AR-201	2009
A-95-5289	1104	A278(JAPAN)	2007	A692X13-4	1123	A2474	563	AC50(DIODE)	1102	AM66	1104	AR201(Y)	2009
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A99S07	2001	A279(JAPAN)	2007	A694X1	563	A2481	1104	AC122	2007	AM300A	1102	AR-202	2009
A99SK5	2001	A282	2007	A694X1-0A	563	A2485	1104	AC130	2001	AM301	1102	AR202GREEN	2009
A99SK7	2001	A283	2007	A747	2009	A2499	2009	AC150	2007	AM301A	1102	AR204	2009
A100	1104	A284	2007	A747A	2009	A3607	2001	AC157	2001	AM302	1102	AR205	2009
A100(RECTIFIER)	1104	A300	1104	A748	2016	A3609	2001	AC-175A	2009	AM302A	1102	AR206	2009
A-100(RECT.)	1104	A301	2009	A748B	2009	A3772.01	2011	AC-175B	2009	AM303	1102	AR208	2009
A101-A	1104	A305	2007	A749B	2009	A4212-A	1104	AC-175P	2009	AM303A	1102	AR219YY	2011
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A106	2013	A311(JAPAN)	2007	A909-1012	2009	A10113	1104	ACR83-1007	1123	AM306	1102	AR222BY	2011
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A108	2013	A321	2016	A909-1015	1123	A10118	1104	ACR810-104	2007	AM307	1102	AR224(WHITE)	2011
A108A	2009	A323	2009	A909-1017	1123	A10142	1104	ACR810-105	2007	AM307A	1102	AR224(YELLOW)	2011
A108B	2009	A324	2009	A909-1018	1104	A10164	1104	ACR810-106	2007	AM308	1102	AR306	2009
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A121-21	2001	A400	1104	A1087	2031	A36539	563	AD50	1104	AM430	1104	AS3	1104
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A121-585	2011	A414	2007	A1243	2007	A95115	2001	AD100(DIODE)	1102	AM440	1104	AS4	1104
A121-585B	2011	A-415	2009	A-1379	2009	A95211	2001	AD150(DIODE)	1102	AM445	1104	AS-5	1104
A121-687	2011	A415	2016	A1379	2030	A112363	2041	AD200	1104	AM450	1104	AS5	1104
A121-762	2001	A415(JAPAN)	2007	A-1380	2009	A-120077	563	AD200(DIODE)	1102	AM460	1104	AS6	1104
A121-1410	2001	A417	2016	A1380	2009	A-120125(DIODE)	1102	AD741CH	007	AM620	1102	AS11	1104
A123-7	1104	A417-154	2011	A1396	2001	A-120278	2009	AD741CN	010	AM620A	1102	AS-14	1104
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ASY80	2007	AZ9.1	562	B3B5	1104	B74-3-A-21	2007	B170005	2041	BAY87	1104	BC171	2009
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AZ-090	562	B3A5	1104	B66X0040-001	563	B170004	2041	BAY68	1102	BC169C	2009	BC284	2009
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AZ6.2	561	B3B1	1104	B66X0040-006	2041	B170004-BRN	2041	BAY86	1104	BC170A	2016	BC284B	2009

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BC285	2009	BCY36	2009	BF200	2015	BF459	2012	BFV81B	2034	BFY76	2009	BSW39	2009
BC289	2009	BCY38	2023	BF200(ZENITH)	2011	BF494	2016	BFV82	2034	BFY77	2009	BSW41	2033
BC289A	2009	BCY40	2023	BF-214	2009	BF495	2016	BFV82A	2034	BFY78	2038	BSW42	2009
BC289B	2009	BCY42	2016	BF-215	2009	BF506	2034	BFV82B	2034	BFY79	2016	BSW42A	2009
BC290	2009	BCY43	2016	BF216	2011	BF594	2016	BFV82C	2034	BFY80	2012	BSW43	2009
BC290B	2009	BCY-50	2009	BF217	2011	BF595	2016	BFV83	2016	BFY85	2012	BSW43A	2009
BC290C	2009	BCY50	2009	BF218	2011	BF596	2016	BFV83A	2016	BFY86	2012	BSW51	2009
BC295	2016	BCY51	2009	BF219	2011	BF597	2013	BFV83B	2016	BFY87	2031	BSW52	2009
BC-307	1104	BCY56	2009	BF220	2011	BF26235-5	1104	BFV83C	2016	BFY87A	2031	BSW53	2009
BC308(ALGG)	2034	BCY57	2009	BF224	2016	BFR10	2038	BFV85	2009	BFY88	2038	BSW58	2009
BC308VI	2034	BCY-58	2009	BF224J	2016	BFR11	2009	BFV85A	2009	BFY90	2015	BSW59	2009
BC309A	2034	BCY58	2009	BF225	2016	BFR18	2012	BFV85B	2009	BFY90(SIEG)	2015	BSW82	2009
BC317	2009	BCY58B	2009	BF225J	2016	BFR19	2012	BFV85C	2009	BFY90B	2011	BSW83	2009
BC317A	2009	BCY58C	2009	BF-226	2009	BFR20	2012	BFV85D	2013	BFY371	2009	BSW84	2009
BC317B	2009	BCY58D	2009	BF228	2012	BFR21	2008	BFV85E	2013	BFY391	2009	BSW85	2009
BC318	2016	BCY59	2009	BF229	2016	BFR25	2013	BFV86	2023	BG-66	2030	BSW88	2016
BC318A	2009	BCY59A	2009	BF230	2016	BFR26	2016	BFV86B	2023	BG71	2009	BSW88A	2016
BC318B	2009	BCY59B	2009	BF233-2	2016	BFR28	2015	BFV87	2009	BG-94	2010	BSW88B	2010
BC318C	2009	BCY59C	2009	BF233-3	2016	BFR36	2012	BFV87A	2009	BH4R1	1104	BSW89	2016
BC319	2009	BCY59D	2009	BF233-4	2016	BFR57	2012	BFV87B	2016	BH71	2009	BSW89A	2016
BC319B	2009	BCY69	2009	BF235	2016	BFR58	2012	BFV88	2009	BI71	2009	BSW89B	2010
BC319C	2009	BCY70	2023	BF237	2013	BFR59	2012	BFV88A	2009	BI-82	2032	BSW92	2009
BC394	2008	BCY72	2034	BF238	2013	BFS11	2038	BFV88B	2009	BIP7201	2009	BSX19	2009
BC408	2016	BCY84A	2009	BF240	2016	BFS13E	2013	BFV88C	2016	BLX88	2038	BSX20	2009
BC409	2009	BCY87	2013	BF240B	2016	BFS13F	2013	BFV89	2016	BLY10	2041	BSX24	2016
BC418	2034	BCY88	2013	BF241	2016	BFS13G	2013	BFW19	2038	BLY11	2041	BSX25	2016
BC429	2010	BCY89	2013	BF241C	2016	BFS14E	2022	BFW29	2038	BLY12	2041	BSX26	2038
BC442	2011	BCY90	2022	BF241D	2016	BFS14F	2022	BFW32	2009	BLY15	2041	BSX27	2038
BC456	2013	BCY90B	2023	BF245A	2036	BFS14G	2022	BFW33	2012	BLY47	2041	BSX28	2038
BC478	2034	BCY91	2022	BF248	2009	BFS15E	2013	BFW41	2038	BLY48	2041	BSX30	2038
BC478A	2034	BCY91B	2023	BF249	2023	BFS15F	2013	BFW42	2038	BN7133	2041	BSX36	2023
BC478B	2034	BCY92	2022	BF250	2009	BFS15G	2013	BFW46	2009	BN7214	2041	BSX38	2016
BC507A	2009	BCZ13	2022	BF253	2011	BFS16E	2022	BFW59	2009	BN7517	2009	BSX38A	2016
BC507B	2009	BCZ14	2022	BF254	2016	BFS16F	2022	BFW60	2009	BN7518	2009	BSX38B	2010
BC508A	2016	BD0A	1104	BF254(ALGG)	2016	BFS16G	2022	BFW63	2038	BN7551	563	BSX39	2038
BC508B	2009	BD-1A	1104	BF254(PHIN)	2016	BFS17R	2011	BFW64	2038	BP67	2009	BSX44	2038
BC508C	2009	BD3A-184	1104	BF254(SIEG)	2016	BFS18	2015	BFW68	2016	BPS-S-50	1122	BSX48	2009
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BC509C	2009	BD-107(RECT.)	1104	BF-255	2009	BFS19	2016	BFX12	2034	BR42	1104	BSX51	2009
BC510B	2009	BD111	2041	BF255	2016	BFS19CB	2010	BFX13	2034	BR44	1104	BSX51A	2009
BC510C	2011	BD112	2041	BF255(ALGG)	2016	BFS19R	2016	BFX18	2016	BR46	1104	BSX52	2009
BC513	2034	BD113	2041	BF255(PHIN)	2016	BFS20	2016	BFX19	2016	BR47	1104	BSX52A	2009
BC513A	2034	BD116	2041	BF255(SIEG)	2016	BFS20R	2015	BFX20	2016	BR48	1104	BSX53	2016
BC514A	2034	BD117	1104	BF255C	2016	BFS26E	2022	BFX21	2016	BR52	1104	BSX54	2016
BC546	2009	BD118	2041	BF255D	2015	BFS26F	2022	BFX31	2038	BR67	2009	BSX66	2016
BC546B	2009	BD121	2041	BF260	2038	BFS26G	2022	BFX32	2038	BR51400-1	1104	BSX67	2016
BC547B	2009	BD-127	1104	BF261	2038	BFS27E	2031	BFX43	2016	BR51401-2	1104	BSX68	2016
BC548	2030	BD130	2041	BF262	2015	BFS27F	2031	BFX44	2016	BRC-116	2041	BSX69	2016
BC548VI	2038	BD142	2041	BF263	2015	BFS27G	2031	BFX45	2016	BRN-SPEC-24-12	1122	BSX70	2009
BC583	2009	BD145	2041	BF264	2015	BFS31P	2016	BFX59	2038	BS-1	1104	BSX71	2009
BC-1072	2009	BD181	2041	BF273C	2038	BFS36A	2033	BFX59F	2016	BS1	1104	BSX75	2009
BC-1082	2009	BD182	2041	BF273D	2038	BFS36B	2009	BFX62	2015	BS2	1104	BSX76	2016
BC-1086	2009	BD183ELK	2041	BF274C	2038	BFS36C	2009	BFX65	2022	BS67	2009	BSX77	2016
BC-1096	2009	BD245	2041	BF288	2016	BFS38	2009	BFX73	2038	BS475	2009	BSX78	2016
BC1096	2009	BD245A	2041	BF291	2016	BFS38A	2033	BFX74	2030	BS9011G	2009	BSX79	2016
BC1478	2009	BDX40	2041	BF291A	2016	BFS40	2023	BFX77	2016	BSA01	1102	BSX79A	2010
BC-1690	2009	BDY17	2041	BF291B	2016	BFS40A	2023	BFX92	2013	BSA02	1102	BSX79B	2010
BCF5	1104	BDY23	2041	BF292	2012	BFS42	2009	BFX93	2013	BSA11	1102	BSX80	2033
BCM1002-2	2011	BDY38	2041	BF293	2009	BFS42A	2009	BFX94	2009	BSS10	2033	BSX81	2016
BCW29	2034	BDY39	2041	BF293A	2009	BFS42B	2009	BFX95A	2038	BSS19	2012	BSX81A	2016
BCW29R	2034	BDY53	2041	BF293D	2009	BFS42C	2009	BFX96A	2038	BSS20	2012	BSX81B	2010
BCW31	2016	BE6	2007	BF302	2038	BFS43	2009	BFX97A	2038	BSS21	2016	BSX87	2016
BCW31R	2016	BE6A	2007	BF304	2038	BFS43A	2009	BFX98	2012	BSS22	2034	BSX87A	2038
BCW34	2009	BE-66	2030	BF306	2016	BFS43B	2009	BFY	2009	BSS26	2016	BSX88	2016
BCW36	2009	BE107	1104	BF310	2016	BFS43C	2009	BFY10	2013	BSV21	2034	BSX88A	2016
BCW48A	2030	BE117	1104	BF310(ALGG)	2038	BFS55A	2013	BFY17	2038	BSV35	2009	BSX89	2033
BCW50	2012	BE127	1104	BF311	2011	BFS69	2034	BFY18	2016	BSV35A	2033	BSX90	2016
BCW60A	2009	BE173	2011	BF314	2016	BFS99	2012	BFY19	2016	BSV40	2016	BSX91	2016
BCW60AA	2009	BF71	2009	BF314(ALGG)	2016	BFT55	2016	BFY-22	2009	BSV41	2009	BSX92	2038
BCW60AB	2010	BF115	2016	BF321A	2009	BFV10	2009	BFY22	2031	BSV52	2015	BSX93	2038
BCW60AC	2010	BF120	2012	BF321B	2009	BFV11	2009	BFY-23	2009	BSV52R	2015	BSX94A	2009
BCW60B	2010	BF121	2016	BF321C	2009	BFV12	2009	BFY23	2031	BSV53	2016	BSX97	2009
BCW60C	2010	BF123	2013	BF321D	2009	BFV20	2023	BFY-23A	2009	BSV53P	2015	BSY10	2009
BCW65EA	2014	BF125	2016	BF321E	2009	BFV27	2011	BFY23A	2009	BSV54	2016	BSY11	2009
BCW65EB	2009	BF127	2013	BF321F	2009	BFV28	2011	BFY-24	2009	BSV54P	2011	BSY17	2009
BCW83	2009	BF137	2012	BF324	2034	BFV29	2034	BFY24	2031	BSV55	2034	BSY18	2009
BCW94	2009	BF152	2038	BF329	2038	BFV30	2034	BFY25	2009	BSV55A	2034	BSY19	2016
BCW94A	2009	BF153	2011	BF332	2016	BFV31	2034	BFY26	2016	BSV55AP	2021	BSY20	2009
BCW94B	2009	BF154	2016	BF333	2016	BFV32	2034	BFY28	2009	BSV55P	2034	BSY21	2033
BCW94C	2009	BF158	2038	BF333C	2011	BFV33	2034	BFY-29	2009	BSV59	2016	BSY24	2030
BCW94KA	2009	BF159	2038	BF333D	2011	BFV34	2034	BFY29	2013	BSV65FA	2016	BSY25	2030
BCW94KB	2009	BF160	2038	BF334	2016	BFV35	2034	BFY-30	2009	BSV65FB	2016	BSY26	2016
BCW94KC	2009	BF165	2016	BF335	2016	BFV36	2034	BFY30	2013	BSV77	2038	BSY27	2016
BCX19	2010	BF166	2016	BF340	2034	BFV37	2016	BFY33	2009	BSV84	2009	BSY28	2016
BCX19R	2010	BF167	2016	BF341	2034	BFV40	2016	BFY37	2016	BSV86	2009	BSY29	2016
BCX20	2033	BF174	2008	BF342	2034	BFV41	2016	BFY-39	2009	BSV87	2009	BSY34	2009
BCX20R	2033	BF175	2016	BF343	2034	BFV42	2016	BFY39	2016	BSV88	2033	BSY38	2016
BCX58VII	2038	BF176	2016	BF344	2016	BFV43	2016	BFY39/1	2009	BSV89	2016	BSY39	2016
BCX58VIII	2030	BF-180	2030	BF345	2015	BFV44	2016	BFY39/2	2009	BSV90	2016	BSY40	2034
BCX70AG	2010	BF180	2015	BF355	2012	BFV45	2016	BFY39/3	2009	BSV91	2016	BSY41	2034
BCX70AH	2010	BF181	2015	BF357	2031	BFV46	2016	BFY39-1	2016	BSV92	2016	BSY44	2038
BCX70AJ	2010	BF182	2015	BF362	2015	BFV47	2016	BFY47	2011	BSV95	2038	BSY45	2038
BCY13	2009	BF183	2015	BF363	2015	BFV49	2016	BFY48	2031	BSV97	2023	BSY46	2038
BCY15	2009	BF183A	2009	BF364	2016	BFV50	2014	BFY49	2013	BSV98	2023	BSY48	2009
BCY16	2009	BF184	2016	BF365	2016	BFV51	2009	BFY56	2008	BSW11	2016	BSY49	2009
BCY17	2022	BF185	2016	BF384	2038	BFV53	2009	BFY63	2038	BSW12	2016	BSY51	2030
BCY18	2022	BF189	2009	BF385	2015	BFV54	2009	BFY65	2012	BSW19	2016	BSY58	2009
BCY19	2022	BF194	2016	BF414	2021	BFV55	2009	BFY66	2015	BSW19A	2034	BSY59	2009
BCY21	2022	BF194B	2011	BF440	2034	BFV59	2011	BFY69	2031	BSW19VI	2034	BSY61	2016
BCY23	2022	BF195	2016	BF441	2034	BFV60	2013	BFY69A	2031	BSW20A	2034	BSY62	2016
BCY24	2022	BF195C	2011	BF450	2034	BFV61	2013	BFY69B	2031	BSW20VI	2034	BSY62A	2009
BCY25	2022	BF195D	2011	BF451	2034	BFV62	2010	BFY72	2038	BSW24	2023	BSY63	2009
BCY26	2022	BF196	2016	BF456	2012	BFV80	2011	BFY73	2009	BSW32	2012	BSY68	2012
BCY27	2022	BF197	2011	BF457	2012	BFV81	2034	BFY74	2009	BSW33	2016	BSY70	2016
BCY28	2022	BF198	2016	BF458	2012	BFV81A	2034	BFY75	2009	BSW34	2009	BSY72	2016

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BSY73	2016
BSY74	2016
BSY75	2033
BSY76	2033
BSY80	2009
BSY89	2009
BSY91	2012
BSY92	2030
BSY93	2016
BSY95	2016
BSY95A	2016
BSY165	2009
BSY168	2009
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BTM50	1104
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BTX-095	2009
BTX-096	2009
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BYX10	1114
BYX12/400	1114
BYX13/600	1114
BYX22/200	1104
BYX22/400	1104
BYX22/600	1104
BYX22/800	1114
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BYX36/300	1104
BYX36/600	1104
BYX36-300	1104
BYX36-600	1104
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BYX58-100	1102
BYX58-200	1102
BYX60-50	1104
BYX60-200	1104

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BYX60-400	1104
BYX60-500	1104
BYX60-600	1104
BYX60-700	1114
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BYY91	1114
BZ-058	561
BZ-061	561
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BZ-085	562
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BZ-090	562
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BZ-090(DIODE)	1123
BZ-090(ZENER)	562
BZ-092	562
BZ-094	562
BZ094	562
BZ-0900	562
BZ-0901	562
BZ1-9	562
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BZ9.1	562
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BZ67	2009
BZ71	2009
BZ-120	563
BZ120	563
BZ-145	564
BZ-150	564
BZ150	564
BZX10	561
BZX14	562
BZX17	563
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BZX19	564
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BZY83C13V5	563
BZY-83C15	564
BZY83C15	564
BZY83C16	564
BZY83D12	563
BZY-83D15	564
BZY83D15	564
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BZY85/D15	564
BZY85C6V2	561

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BZY85C9V1	562
BZY85C12	563
BZY85C13	563
BZY85C15	564
BZY85D12	563
BZY85D15	564
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BZY88/C9V5	562
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BZY88C12	563
BZY88C13	563
BZY88C15	564
BZY92/C15	564
BZY92C6V2	561
BZY92C9V1	562
BZY92C12	563
BZY92C15	564
BZY94/C12	563
BZY94/C15	564
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BZY94C13	563
BZY94C15	564
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C1B	1104
C1H	1104
C1.0E02	1114
C2AJ102	1104
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C10-20A	1102(2)
C10-22C	1102(2)
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C14	2001
C15(TRANSISTOR)	2009
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C15-3	2009
C16	2009
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C23H12B	1104
C26	2009
C28	2009
C29	2009
C33	2009
C36(TRANSISTOR)	2001
C37	2009
C37(TRANSISTOR)	2009
C38	2009
C38(TRANSISTOR)	2009
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C45	2009
C47	2009
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C49Y	2041
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C56	2011
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C75(JAPAN)	2001
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C76(JAPAN)	2001
C77	2001
C77C	2001
C78	2001
C83-829	1104
C83-880	1104
C87	2009
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C90	2001
C91	2001
C100	2009
C100-OY	2009
C103	2009
C103(JAPAN)	2009
C103A(TRANSISTOR)	2009
C104	2009
C104A	2009
C105	2009
C106A	1067
C106B	1067
C106F	1067

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C106Y	1067
C110	2009
C111	2009
C111E	2016
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C128	2001
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C183R	2038
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C185(TRANSISTOR)	2038
C185A	2038
C185J	2038
C185M	2038
C185Q	2038
C185R	2038
C186	2011
C187	2011
C191	2009
C192	2009
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C230	2009
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C239	2009
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C266	2011
C267	2009
C267A	2009
C281	2009
C281A	2009
C281B	2009
C281C	2009
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C281D	2009
C281EP	2009
C281H	2009
C281HA	2009
C281HB	2009
C281HC	2009
C282	2009
C282H	2009
C282HA	2009
C282HB	2009
C282HC	2009
C283	2009
C283(TRANSISTOR)	2009
C284	2009
C284H	2009
C284HA	2009
C284HB	2009
C285	2009
C285A	2009
C287(TRANSISTOR)	2038

DEVICE	276-
C287A	2038
C288	2038
C288A	2038
C300	2009
C301	2009
C302(JAPAN)	2009
C315	2009
C317	2009
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C317C	2009
C318(JAPAN)	2009
C318A(JAPAN)	2009
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C320	2009
C321	2009
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C321HA	2009
C321HB	2009
C321HC	2009
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C324A	2009
C324H	2009
C324HA	2009
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C351	2011
C351(FA)	2011
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C352(JAPAN)	2009
C352A	2009
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C360D	2009
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C369G	2009
C369G-BL	2009
C369GBL	2009
C369G-GR	2009
C369GGR	2009
C369GR	2009
C369G-V	2009
C369V	2009
C371	2009
C371(0)	2009
C371-0	2009
C371-O	2009
C371-R	2009
C371B	2009
C371G	2009
C371R	2009
C372	2009
C372(0)	2009
C372-0	2009
C372-1	2009
C372-2	2009
C372-O	2009
C372-R	2009
C372-Y	2009
C372-Z	2009
C372GR	2009
C372H	2009
C372Y	2009
C375	2011
C375-O	2011
C377	2009
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C380	2013
C380(TRANSISTOR)	2013
C380-0	2013
C380-O	2013
C380-O/4454C	2013
C380A-0(TV)	2013
C380A	2013
C380A(O)	2013
C380AO	2013
C380A-R	2013
C380A-R(TV)	2013
C380ATV	2013
C380AY	2013
C380D	2013
C380R	2013
C380R/4454C	2013
C380Y	2013
C381	2011
C381-0	2011
C381-O	2011
C381-R	2011
C381BN	2011
C381R	2011
C385(TRANSISTOR)	2011
C385A	2011
C387(TRANSISTOR)	2015
C387A(FA-3)TRAN	2015

DEVICE	276-
C387A(TRANSISTOR)	2015
C387G(TRANSISTOR)	2015
C388	2010
C388(TRANSISTOR)	2010
C388A	2010
C388ATV	2010
C394	2013
C394(TRANSISTOR)	2013
C394-0	2013
C394-O	2013
C394GR	2013
C394R	2013
C394W	2013
C394Y	2013
C395	2009
C395A	2009
C395R	2009
C396	2009
C400	2009
C400-0	2009
C400-R	2009
C400-Y	2009
C401(JAPAN)	2009
C402(JAPAN)	2009
C402A	2009
C403	2009
C403(C)	2009
C403A	2009
C403C	2009
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C407	2012
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C423B	2009
C423C	2009
C423D	2009
C423E	2009
C423F	2009
C424	2016
C424(JAPAN)	2009
C424D	2009
C425	2009
C425B	2009
C425C	2009
C425D	2009
C425E	2009
C425F	2009
C426	2030
C440	2009
C441	2009
C442	2016
C444	2016
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C454(A)	2009
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C454C	2009
C454D	2009
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C454LA	2009
C458LG(B)	2009
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C460(A)	2010
C460(B)	2010
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C460B	2010
C460C	2010
C460D	2010
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C460GB	2010
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C460L	2010
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C468A	2009
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C469F	2038
C469K	2038
C469Q	2038
C469R	2038
C475	2009
C475K	2009
C476	2009
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C520(TRANSISTOR)	2041
C520A	2041
C521	2041
C521A	2041
C529	2009
C529A	2009
C535	2013
C535A	2013
C535B	2013
C535C	2013
C535G	2013
C537	2009
C537(F)	2009

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C537(G)	2009
C537-01	2009
C537A	2009
C537B	2009
C537C	2009
C537D	2009
C537D2	2009
C537E	2009
C537EF	2009
C537EH	2009
C537EJ	2009
C537EK	2009
C537F	2009
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C537F2	2009
C537FC	2009
C537FV	2009
C537G	2009
C537G1	2009
C537GF	2009
C537GI	2009
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C537HT	2009
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C545B	2011
C545C	2011
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C545E	2011
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C566	2009
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C587A	2009
C588	2009
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C596	2009
C602E	2009
C605	2038
C605(NEC)	2038
C605(Q)	2038
C605K	2038
C605L	2038
C605M	2038
C605Q	2011
C605TW	2038
C606	2038
C606(NEC)	2038
C619	2009
C619B	2009
C619C	2009
C619D	2009
C620	2009
C620C	2009
C620CD	2009
C620D	2009
C620DE	2009
C620E	2009
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C633-7	2009
C633A	2009
C633G	2009
C633H	2009
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C634A	2009
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C640B	2009
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C645B	2011
C645C	2011
C645G	2011
C645N	2011
C647Q	2041
C647R	2041
C650B	2009
C652	2038
C654	2009
C655	2009
C656	2011
C657	2011
C664	2041
C664B	2041

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C664C	2041	C764	2012	C839	2009	C934(RECTIFIER)	1104	C1390YM	2009	CB5	1104	CD6150	2009
C668	2011	C765	2041	C839(H)	2009	C934(TRANSISTOR)	2009	C1393	2009	CB10	1104	CD6157	2009
C668-0	2013	C768	2041	C839(J)	2009	C934C	2009	C1394	2011	CB20	1104	CD6161P1N013-75	1122
C668A	2013	C772	2013	C839(M)	2009	C934D	2009	C1396	2015	CB50	1104	CD6375	2009
C668B	2013	C772B	2011	C839A	2009	C934E	2009	C1417	2011	CB-103	2007	CD8000	2009
C668B1	2013	C772BG	2013	C839B	2009	C934F	2009	C1417C	2011	CB106	1123	CD8000-1	2009
C668BC2	2013	C772BH	2013	C839C	2009	C934G	2009	C1417D	2011	CB150	1104	CD-8457	1104
C668C	2013	C772BV	2013	C839D	2009	C934P	2009	C1417D(1)	2011	CB163	1123	CD8457	1102
C668C1	2013	C772BX	2013	C839E	2009	C938	2009	C1417DU	2011	CB200	1104	CD8547	1102
C668CD	2013	C772BY	2013	C839F	2009	C938A	2009	C1417F	2011	CB246	2009	CD9525	2009
C668D0	2013	C772C	2013	C839H	2009	C938B	2009	C1417G	2011	CB250	1104	CD12000	2009
C668D	2013	C772C1	2013	C839J	2009	C938C	2009	C1417H	2011	CB393	1123	CD13332	1104
C668D1	2013	C772C2	2013	C839L	2009	C941	2009	C1417U	2011	CC102BA	1104	CD13333	1104
C668DE	2013	C772CK	2013	C839M	2009	C941-0	2009	C1417V	2011	CC102DA	1104	CD13334	1104
C668DO	2013	C772CL	2013	C839N	2009	C941-O	2009	C1417VW	2011	CC102FA	1104	CD13335	1104
C668DV	2013	C772CS	2013	C839S	2009	C941-R	2009	C1417W	2011	CC102HA	1104	CD13336	1104
C668DX	2013	C772CU	2011	C844	2009	C941-Y	2009	C1424	2015	CC102KA	1104	CD13337	1104
C668DZ	2013	C772CV	2013	C847	2009	C941R	2009	C1437	2007	CC102MA	1104	CD13338	1104
C668E	2013	C772CX	2011	C848	2009	C943	2009	C1438	2007	CC102PA	1114	CD13339	1104
C668E1	2013	C772D	2013	C849	2009	C943A	2009	C1542	2009	CC102RA	1114	CD-84857	1102
C668E2	2013	C772DJ	2013	C850	2009	C943B	2009	C1547	2015	CC102VA	1114	CD86003	1102
C668EP	2013	C772DU	2013	C851	2041	C943C	2009	C1639	2009	CC152VA	1114	CD860011	1102(2)
C668EV	2013	C772DV	2013	C870	2009	C944	2009	C1674	2013	CC1168F	2009	CD-860037	1104
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C689	2009	C772E	2013	C870F	2009	C944C	2009	C1674M	2013	CCS2001H	2009	CD3122055	562
C689H	2009	C772F	2013	C871	2009	C944D	2009	C1675	2013	CCS2004	2009	CD3212055	562
C694D	2009	C772K	2013	C871BL	2009	C944K	2009	C1675K	2013	CCS-2006D	2030	CD3212055(ZENER)	562
C695	2011	C772KB	2013	C871D	2009	C960	2009	C1675L	2013	CCS4004	2009	CDC86X7-5	2009
C701(TRANSISTOR)	2009	C772KC	2013	C871E	2009	C966	2009	C1675M	2013	CCS6168	2009	CDC430	2009
C702	2009	C772KD	2013	C871F	2009	C967	2009	C1686	2013	CCS6168F	2009	CDC731	2035
C705	2011	C772KD1	2013	C871G	2009	C968	2009	C1687	2009	CCS9018E	2009	CDC745(ZENITH)	2009
C705B	2011	C772KD2	2013	C894	2009	C968P	2009	C1688	2009	CD-0000	1123	CDC746	2009
C705C	2011	C772R	2013	C896	2009	C984	2009	C1739	2009	CD0000	1123	CDC1201BC	2009
C705D	2011	C772R(JAPAN)	2013	C899	2009	C984A	2009	C1816	2020	CD0000/7825B	1123	CDC2010	2009
C705E	2011	C772RB-D	2013	C899K	2009	C984B	2009	C1908E	2011	CD-0000N	1123	CDC2010C	2009
C705F	2011	C772RD	2013	C903D	2013	C984C	2009	C1964	2020	CD0000NC	1102	CDC2010D	2009
C705TV	2011	C773	2009	C913	2009	C991	2009	C2300.037-096	2009	CD000	1123	CDC2510C	2009
C707	2011	C773C	2009	C917	2013	C992	2009	C2538-11	2009	CD-00-9	1102	CDC2510C-G	2009
C707H	2011	C773D	2009	C917K	2013	C1000-Y	2009	C3710	2009	CD0014	1102	CDC2510G	2009
C709	2009	C773E	2009	C920	2011	C1001	2016	C4011	561	CD0014(MORSE)	1102	CDC4023A130	2009
C709B	2009	C784	2013	C920E	2011	C1004	2013	C4015	562	CD-0014N	1123	CDC5000	2011
C709C	2009	C784-0	2013	C920Q	2013	C1007	2009	C4018	563	CD0014NA	2009	CDC8000	2009
C709CD	2009	C784-O	2013	C920R	2013	C1023(JAPAN)	2011	C4020	564	CD0014NG	2009	CDC-8000-1	2030
C709D	2009	C784A	2013	C921	2011	C1023-O	2011	C-4401	1102	CD0015N	2009	CDC8000-1B	2009
C710	2009	C784BN	2013	C921C1	2011	C1023-Y	2011	C5005	1123	CD0021	2009	CDC-8001	2009
C710(B)	2009	C784R	2013	C921K	2011	C1023G	2011	C6090	702	CD-0033	561	CDC8001	2009
C710(D)	2009	C784Y	2013	C921L	2011	C1026	2011	C6102P	038	CD0033	561	CDC8011B	2009
C710-1	2009	C785	2011	C921M	2011	C1026G	2011	C6103P	017	CD05	1104	CDC8021	2009
C710-2	2009	C785(0)	2013	C922	2011	C1026Y	2011	C7076	2016	CD2	1104(2)	CDC8054	2009
C710-4	2009	C785BN	2013	C922A	2011	C1032	2011	C7335-BL	2009	CD-2N	1104	CDC8201	2031
C710B	2009	C785D	2013	C922B	2011	C1032G	2011	C7350RN	2009	CD-4	1104	CDC8457	1102
C710BC	2009	C785E	2013	C922C	2011	C1032Y	2011	C7840	2013	CD4	1104	CDC12000	2009
C710C	2009	C785R	2013	C922K	2011	C1033	2009	C9080	2023	CD-20	1102	CDC12000-1C	2009
C710D	2009	C786	2013	C922L	2011	C1033A	2009	C9082	2023	CD31-00008	561	CDC12018C	2009
C710E	2009	C793	2041	C922M	2011	C1047	2013	C9084	2023	CD31-00012	562	CDC12030B	2011
C712	2009	C793BL	2041	C923E	2009	C1047B	2013	C9604	2009	CD31-00015	563	CDC12077F	2009
C712A	2009	C793R	2041	C925	2009	C1047C	2013	C10110	1104	CD31-00017	564	CDC12108	2009
C712C	2009	C793Y	2041	C929	2013	C1047D	2013	C10159	1104	CD31-10365	564	CDC13000	2009
C712D	2009	C794R	2041	C929-0	2013	C1047E	2013	C10176	1104	CD31-12019	562	CDC-13000-1	2009
C712E	2009	C796	2009	C929B	2013	C1071	2009	C10279-1	2009	CD31-12022	563	CDC13000-1	2009
C712W	2009	C799	2020	C929C	2013	C1123	2011	C10279-3	2009	CD31-12024	564	CDC13000-1B	2009
C713	2009	C800	2011	C929C1	2013	C1126	2011	C12711	2009	CD31-12039	562	CDC13000-1C	2009
C714	2009	C815	2009	C929D	2013	C1128(3RD-IF)	2010	C13901	2009	CD-37	1102	CDC-13000-1D	2009
C715(JAPAN)	2009	C815(M)	2009	C929D1	2013	C1128D	2009	C21382	1104	CD37	1102	CDC13000-1D	2009
C715A	2009	C815A	2009	C929DE	2013	C1159	2011	C21383	562	CD-37A	1102	CDC13000-18	2009
C715B	2009	C815B	2009	C929DP	2013	C1173(RF-PWR)	2020	C21480	1123	CD37A	1102	CDC13000C	2009
C715C	2009	C815C	2009	C929DU	2013	C1175	2009	C23018	1122	CD37A2	1104	CDC13016A	2009
C715D	2009	C815F	2009	C929DV	2013	C1175C	2009	C36580	2009	CD38	2009	CDC13019B	2009
C715E	2009	C815K	2009	C929E	2013	C1175D	2009	C248507	1104	CD446	2009	CDC13500-1	2009
C715EJ	2009	C815L	2009	C929ED	2013	C1175F	2009	C255110-011	1102	CD461	2041	CDC15018	2009
C715EV	2011	C815M	2009	C929F	2013	C1187	2013	C256125-011	1122	CD461-014-614	2041	CDC25100-6	2009
C715F	2009	C815S	2009	C929FK	2013	C1217	2012	C523383	2030	CD541	017	CDC60132	2009
C715XL	2009	C815SA	2009	C930	2013	C1237E	2020	C1945295DY1	2009	CD1111	1104	CDC4306813	2009
C716	2009	C815SC	2009	C930B	2013	C1244	2009	C6141990	1102	CD1112	1104	CDG-00	1102
C716B	2009	C825	2009	C930BK	2013	C1260	2015	C6862400	2009	CD1113	1104	CDG00	1102
C716C	2009	C828AS	2009	C930BV	2013	C1293A(LAST-IF)	2010	CA-092	562	CD1114	1104	CDG005	1104
C716D	2009	C829	2009	C930C	2013	C1293B(3RD-IF)	2010	CA10	1104	CD1115	1104	CDG025	1102
C716E	2009	C829A	2009	C930CL	2013	C1293B(LAST-IF)	2010	CA20	1104	CD1116	1104	CDG-20	1102
C716F	2009	C829B	2009	C930CS	2013	C1307	2020	CA50	1104	CD1121	1104	CDG-20/494	1102
C716G	2009	C829BC	2009	C930D	2013	C1359	2013	CA90	1102	CD1122	1104	CDG-21	1102
C717(FINAL-IF)	2010	C829C	2009	C930DE	2011	C1359A	2013	CA100	1104	CD1123	1104	CDG-22	1102
C720	2016	C829D	2009	C930DS	2013	C1359B	2013	CA102BA	1104	CD1124	1104	CDG22	1102
C722	2016	C829R	2009	C930DT	2013	C1359C	2013	CA102DA	1104	CD1125	1104	CDG-24	1102
C725	2009	C829X	2009	C930DT-2	2013	C1360	2011	CA102FA	1104	CD1126	1104	CDG24	1102
C725-O	2009	C829Y	2009	C930DX	2013	C1361	2009	CA102HA	1104	CD1127	1104	CDG24/3490	1102
C735-O	2009	C835	2011	C930E	2013	C1362	2009	CA102MA	1104	CD1141	1104	CDG27	1102
C735-R	2009	C836M	2009	C930EP	2013	C1363	2009	CA102PA	1114	CD1142	1104	CDJ-00	1102
C736	2041	C837	2011	C930ET	2011	C1364	2009	CA102RA	1114	CD1143	1104	CDK-4	1104
C738	2011	C837F	2011	C930EV	2013	C1364A	2009	CA102VA	1114	CD1147	1104	CDQ1018	2009
C738C	2011	C837H	2011	C930EX	2013	C1372Y	2009	CA150	1104	CD1148	1104	CDQ1021	2009
C738D	2011	C837K	2011	C930F	2013	C1377	2020	CA152VA	1114	CD1149	1104	CDQ1024	2009
C739	2011	C837L	2011	C933	2009	C1390A	2011	CA200	1104	CD1151	1104	CDQ10001	2009
C739C	2011	C837WF	2011	C933BB	2009	C1390I	2009	CA250	1104	CD1224	1102	CDQ10002	2009
C741	2009	C838A	2009	C933C	2009	C1390J	2009	CA741CT	007	CD4116	563	CDQ10003	2009
C742	2009	C838B	2009	C933D	2009	C1390K	2009	CA1020A	1104	CD4117	563	CDQ10004	2009
C752	2009	C838C	2009	C933E	2009	C1390V	2009	CA1458S	038	CD4118	563	CDQ10005	2009
C752G	2009	C838D	2009	C933F	2009	C1390W	2009	CA3741CT	007	CD4121	563	CDQ10006	2009
C760	2030	C838E	2009	C933FP	2009	C1390WH	2009	CA6664	1104	CD4122	563	CDQ10007	2009
C763	2011	C838F	2009	C933FPC	2009	C1390WI	2009	CA6665	1104	CD5002	1122	CDQ10008	2009
C763(C)	2011	C838H	2009	C933FPD	2009	C1390WX	2009	CA7248	1104	CD5003	1102	CDQ10009	2009
C763B	2013	C838J	2009	C933FPE	2009	C1390WY	2009	CA8314	1104	CD-5038	1122	CDQ10010	2009
C763C	2013	C838K	2009	C933FPF	2009	C1390X	2009	CA-9011H	2009	CD6016	1122	CDQ10016	2009
C763CD	2013	C838M	2009	C933FPG	2009	C1390XJ	2009	CAC5028A	2011	CD6016-013-689	1122	CDQ10017	2009
C763D	2013	C838R	2009	C933G	2009	C1390XK	2009	CAM-12	2009	CD6019	2009	CDQ10018	2009

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CDQ10019	2009	CF-2	2009	CK759	2007	CS-460B	2009	CS2006F	2013	CS-9013HE	2031	CX-0052	563
CDQ10020	2009	CF2	2009	CK759A	2007	CS696	2009	CS2007G	2009	CS9013HE	2009	CX-0054	1104
CDQ10021	2009	CF5	2009	CK760	2007	CS697	2009	CS2007H	2009	CS9013HF	2009	CX-0055	1102
CDQ10022	2009	CF11	2038	CK760A	2007	CS706	2009	CS2008	2009	CS9013HG	2009	CX-9001	1104
CDQ10023	2009	CF14	2010	CK761	2007	CS718	2009	CS2218	2009	CS9013HH	2009	CX9001	1104
CDQ10024	2009	CF102DA	1104	CK768	2007	CS718A	2009	CS2219	2009	CS9014(C)	2009	CXL100	2007
CDQ10025	2009	CF102PA	1114	CK776	2007	CS720A	2009	CS2221	2009	CS9014/3490	2009	CXL101	2001
CDQ10026	2009	CF102RA	1114	CK776A	2007	CS-901ZHF	2032	CS2222	2009	CS9014A	2009	CXL103	2001
CDQ10027	2009	CG1	2009	CK942	2022	CS925M	2009	CS2369	2009	CS-9014B	2009	CXL107	2011
CDQ10028	2009	CG12E	1123	CL05	1104	CS1068	2009	CS2481	2009	CS9014B	2009	CXL109	1123
CDQ10032	2009	CG64H	1123	CL010	1104	CS-1120C1	2009	CS2711	2009	CS9014B-C	2009	CXL110	1123
CDQ10035	2009	CG65H	1123	CL025	1104	CS-1120C2	2009	CS2712	2009	CS9014C	2009	CXL112	1101
CDQ10036	2009	CG66H	1123	CL1	1104	CS-1120D1	2009	CS2713	2009	CS9014C/3490	2009	CXL116	1104
CDR-2	1104	CG74H	1123	CL1.5	1104	CS-1120H	2009	CS2714	2009	CS-9014D	2009	CXL117	1104
CDR-4	1104	CG86H	1123	CL2	1104	CS-1120I	2031	CS2922	2009	CS9014D	2009	CXL123A	2009
CDS-16B	1104	CG23018	1122	CL3	1104	CS1120I	2030	CS2923	2009	CS9014G	2009	CXL130	2041
CDZ-9V	562	CGD462	1123	CL4	1104	CS1166	2009	CS2924	2009	CS9015	2009	CXL132	2035
CDZ-C9V	562	CGD591	1123	CL5	1104	CS1166D	2009	CS2925	2009	CS9015B	2009	CXL133	2035
CE0360/7839	2009	CGD685	1123	CL6	1104	CS1166D-G	2031	CS2941	2032	CS9016	2031	CXL137	561
CE0361/7839	2009	CGD1029	1123	CL7	1104	CS1166E	2009	CS3001B	2009	CS9016(G)	2009	CXL139	562
CE0362/7839	2009	CGE-61	2010	CL8	1104	CS1166F	2009	CS3390	2009	CS-9016D	2011	CXL142	563
CE0398/7839	1104	CGE-500	1102	CLM05	1104	CS1166G	2009	CS3391	2009	CS9016D	2009	CXL145	564
CE0495/7839	1123	CH119D	1104	CLM1	1104	CS1166H	2009	CS3391A	2009	CS9016E	2013	CXL177	1102
CE37	1102	CHAZ6.2	561	CM7163	2031	CS1166H/F	2009	CS3392	2009	CS9016EF	2009	CXL178MP	1102
CE502	1104	CHAZ6.2A	561	CM8470	1104	CS1168F	2009	CS3393	2009	CS9016F	2013	CXL519	1122
CE504	1104	CHAZ62.A	561	CMC334-423	2009	CS1168G	2009	CS3394	2009	CS9016F(TRUETONE)		CXL5013	561
CE506	1104	CI2712	2009	CMO770	2009	CS1168H	2009	CS3395	2009		2030	CXL5018	562
CE508	1114	CI2713	2009	CO49	1104	CS1226N	2009	CS3396	2009	CS9016F(WESTGHSE)		CXL5021	563
CE510	1114	CI2714	2009	COD1-6045	1104	CS1229	2009	CS3397	2009		2009	CXL5024	564
CE4001B	2009	CI2923	2009	COD1-6046	1104	CS1229A	2009	CS3398	2009	CS9016FG	2009	CXL5452	1067
CE4001E	2009	CI2924	2009	COD1-6047	1104	CS1229B	2009	CS3402	2009	CS9017	2031	CXL5454	1067
CE4003E	2009	CI2925	2009	COD1-6048	1104	CS1229C	2009	CS3403	2009	CS9017F	2011	CXL5455	1067
CE4004C	2009	CI2926	2009	COD1531	1104	CS1229D	2009	CS3404	2009	CS9018	2031	CXL6453	1067
CE4008B	2013	CI3390	2009	COD1532	1104	CS1229E	2009	CS3405	2009	CS-9018D	2030	CY40	1104
CE4008C	2013	CI3391	2009	COD1533	1104	CS1229F	2009	CS3414	2009	CS9018EF	2009	CY50	1104
CEC6050	1104	CI3391A	2009	COD1534	1104	CS1229G	2009	CS3415	2009	CS9018FG	2009	CY100	1114
CER6B	1104	CI3392	2009	COD1535	1104	CS1229H	2009	CS3416	2009	CS9019	2013	CZ-092	562
CER67	1104	CI3393	2009	COD1536	1104	CS1235C	2009	CS3417	2009	CS9021HF(LAST-IF)	2010	CZ092	562
CER67A	1104	CI3394	2009	COD1537	1114	CS1235E	2009	CS3605	2009	CS9021HG(LAST-IF)	2010	CZ-92	562
CER67B	1104	CI3395	2009	COD1538	1114	CS-1235F	2009	CS3606	2009	CS9101B	2009	CZD012-5	563
CER67C	1104	CI3396	2009	COD1551	1104	CS1235G	2009	CS3607	2009	CS-9104	2009	CZD015	564
CER68	1104	CI3397	2009	COD1552	1104	CS1236D	2009	CS3843	2009	CS-9125B	2009	CZD015-5	564
CER68A	1104	CI3398	2009	COD1553	1104	CS1236H	2009	CS3844	2009	CS9125B	2009	D004	1104
CER68B	1104	CI3402	2009	COD1554	1104	CS-1238F	2009	CS3845	2009	CS9126	2009	D006	2011
CER68C	1104	CI3403	2009	COD1555	1104	CS1238F	2009	CS3854	2009	CS9600-4	2009	D009	2013
CER-69	1104	CI3404	2009	COD1556	1104	CS-1238P	2009	CS3854A	2009	CS9600-5	2009	D-00169C	1123
CER69	1104	CI3405	2009	COD1575	1104	CS1238P	2009	CS3855	2009	CS-12941	2031	D-00184R	1102
CER69A	1104	CI3414	2009	COD1611	1104	CS-1244X	2030	CS3855A	2009	CS13401	2009	D-00204R	1123
CER69B	1104	CI3415	2009	COD1612	1104	CS1245F	2009	CS3859	2009	CS-90111	2009	D-00269C	1123
CER69C	1104	CI3416	2009	COD1613	1104	CS1245G	2009	CS3859A	2009	CS90111	2009	D-00384R	1104
CER70	1104	CI3417	2009	COD1614	1104	CS1245H	2009	CS3860	2009	CS90144	1101	D-00469C	561
CER70A	1104	CI3900	2009	COD1615	1104	CS1245I	2009	CS3900	2009	CT100	1104	D-00484R	563
CER70B	1104	CI3900A	2009	COD1616	1104	CS1245T	2009	CS3900A	2009	CT200	1104	D-00569C	562
CER70C	1104	CI3901	2009	COD1617	1114	CS1250E	2009	CS3901	2009	CT300	1104	D-00669C	1123
CER-71	1104	CI4256	2009	COD1618	1114	CS1257	2009	CS3903	2009	CT461	1123	D01-100	1104
CER71	1104	CI4424	2009	COD11556	1104	CS-1258	2030	CS3904	2009	CT600	1104	D-05	1104
CER71A	1104	CI4425	2009	COD15524	1104	CS1258	2009	CS4001	2038	CT1012	2011	D05	1104
CER71B	1104	CII-225-Q	2041	COD15534	1104	CS-1259	2031	CS4003	2013	CT1013	2011	D019	2007
CER71C	1104	CIL-531	2009	COD15544	1104	CS1259	2009	CS4021	2013	CT2002	1123	D028	1104
CER-71CA	1104	CIL-532	2009	COD15564	1104	CS1283A	2009	CS4060	2013	CT2007	1123	D031(CHAN.MASTER)	
CER72	1114	CJ5201	2009	COD16047	1104	CS1286	2009	CS4061	2013	CT-3003	1104		2009
CER72A	1114	CJ5202	2009	CODI1531	1104	CS1288	2009	CS4193	2031	CT3003	1104	D048	2009
CER72B	1114	CJ5203	2009	CODI6045	1104	CS1289	2009	CS4194	2031	CT-3005	1104	D053	2009
CER72C	1114	CJ-5206	2009	CODI6047	1104	CS1295E	2009	CS4424	2009	CT3005	1104	D072	2013
CER72D	1114	CJ5206	2009	CODI11556	1104	CS1295G	2009	CS4425	2009	CTN50	1114	D078	2007
CER72F	1114	CJ-5207	2009	CODI15534	1104	CS-1305	2030	CS5088	2009	CTN100	1114	D093	1123
CER73	1114	CJ5207	2009	CODI15544	1104	CS-1330	2009	CS5369	2009	CTN200	1104	D1-2	1123
CER73A	1114	CJ-5208	2009	CODI15564	1104	CS1330D	2030	CS-6168F	2031	CTN300	1114	D1-7	1104
CER73B	1114	CJ-5211	2009	CODI115524	1104	CS1340I	2009	CS6168F	2009	CTN400	1114	D1-8	562
CER73C	1114	CJ5211	2009	CP102	1114	CS1344	2009	CS-6168G	2009	CTN500	1114	D1-20	1102
CER73D	1114	CJ-5212	2009	CP102BA	1104	CS1345	2009	CS-6168H	2009	CTN600	1114	D1-26	1104
CER73F	1114	CJ5212	2009	CP102DA	1104	CS1348	2009	CS-6225E	2011	CTN800	1114	D1-52S	1104
CER500	1104	CK14	2007	CP102FA	1104	CS1349	2009	CS6225E	2030	CTN1000	1114	D1A	2009
CER500A	1104	CK14A	2007	CP102HA	1104	CS1353	2009	CS-6225F	2009	CTP50	1114	D1D	1114
CER500B	1104	CK16	2007	CP102KA	1104	CS-1359	2030	CS-6225G	2009	CTP100	1114	D1E	1104
CER500C	1104	CK16A	2007	CP102MA	1104	CS-1361E	2009	CS-6227E	2009	CTP200	1114	D1G	562
CER670	1104	CK17	2007	CP102PA	1114	CS-1361F	2009	CS-6227F	2009	CTP300	1114	D1H	1104
CER670A	1104	CK17A	2007	CP102RA	1114	CS-1361G	2031	CS6229F	2009	CTP400	1114	D1J	1104
CER670B	1104	CK25	2007	CP102VA	1114	CS1361G	2009	CS6229G	2009	CTP461	1123	D1J70544	1104
CER670C	1104	CK25A	2007	CP103	1114	CS1362	2009	CS7229G	2009	CTP500	1114	D1J70545	1102
CER680	1104	CK26	2007	CP152VA	1114	CS1363	2009	CS9010	2031	CTP573	1123	D1K	1114
CER680A	1104	CK26A	2007	CP400	2041	CS1368	2009	CS-9011	2009	CTP600	1114	D1L	1104
CER680B	1104	CK27	2007	CP401	2041	CS1368A	2009	CS9011	2013	CTP800	1114	D1R35	1123
CER680C	1104	CK27A	2007	CP404	2041	CS1368B	2009	CS9011(E)(F)	2009	CTP1000	1114	D1R38	2009
CER690	1104	CK83	2007	CP405	2041	CS1368C	2009	CS9011(EF)	2009	CTP-2001-1007	2009	D1R39	1123
CER690A	1104	CK131	1101	CP406	2041	CS1368D	2009	CS9011(GH)	2009	CTP-2001-1008	2009	D1Y	2011
CER690B	1104	CK261	2001	CP407	2041	CS1370	2009	CS9011/3490	2009	CTP-2001-1010	1123	D1Z	564
CER690C	1104	CK262	2001	CP408	2041	CS1371	2009	CS9011D	2009	CTP-2001-1011	1104	D1ZBLU	564
CER700	1104	CK398	2012	CP3212055	562	CS1372	2009	CS9011E	2009	CTP-2001-1012	1104	D1ZYEL	564
CER700A	1104	CK419	2016	CR0000	1123	CS1383	2009	CS-9011F	2009	CTP-2006-1004	1123	D-2	1123
CER700B	1104	CK422	2010	CR/E	1104	CS-1386E	2009	CS9011F	2009	CV425	1123	D2-1	1104
CER700C	1104	CK474	2016	CR101/6515	1123	CS-1386H	2009	CS-9011G	2009	CV442	1123	D2-77-1	1102
CER710	1104	CK475	2016	CR102/6515	1123	CS1420	2009	CS9011G	2009	CX0036	1123	D2G-3	563
CER710A	1104	CK476	2016	CR353	1102	CS1453E	2009	CS9011G/3490	2009	CX-0037	1104	D2G-4	563
CER710B	1104	CK477	2016	CR501/6515	1104(2)	CS1463A	2009	CS9011H	2009	CX0037	1104	D2H(DIODE)	1104
CER710C	1104	CK661	2007	CR801	1104	CS1585	2009	CS9011I	2009	CX-0039	1104	D2J	1104
CER720	1114	CK662	2007	CR956	563	CS1585E/F	2009	CS-9011L	2009	CX0039	1104	D2R31	1123
CER720A	1114	CK705	1123	CR1034	1104	CS1585G	2009	CS9011N	2009	CX-0040	1104	D2R38	2009
CER720B	1114	CK706	1123	CR1035	1104	CS1585H	2011	CS-9012HF	2032	CX0040	1104	D2T918	2011
CER720C	1114	CK706A	1123	CS-16E	1104	CS1625	2009	CS9012HF(LAST-IF)	2010	CX0041	1123	D2U	1123
CER730	1114	CK706P	1123	CS16E	1104	CS1665	2009	CS-9013	2009	CX-0047	1123	D2X4	1104
CER730A	1114	CK710	1101	CS131D(AXIAL)	1104	CS2001H	2009	CS9013A	2009	CX0047	1104	D2Z	562
CER730B	1114	CK715	1123	CS183E	2009	CS2004C	2009	CS9013B	2009	CX-0048	1104	D3A	1102
CER730C	1114	CK727	2007	CS184E	2009	CS2004D	2009	CS9013C	2009	CX0048	1104	D3F	562
CF-092	562	CK731	1101	CS360	2009	CS2006	2009	CS9013D	2009	CX0049	1104	D3G	1102(2)

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
D3H	561	D43	2001	D1201F	1104	DDCY006001	2036	DND800	1102	DS16NA	1114	DS130YE	1104
D3R	1104	D43A	2001	D1201M	1114	DDE-201	1104	DO31	2009	DS16NB	1104	DS-131	1104
D3R38	1104	D44	2001	D1201N	1114	DDFY004002	1102	DO83	2001	DS16NC	1104	DS131	1104
D3R39	1104	D45C	1104	D1201P	1114	DDMV-1	1123	DO85	2001	DS-16ND	1104	DS-131A	1104
D3U	1104	D45CZ	1104	D1420	2035	DDMV-2	1123	DO87	2011	DS16ND	1104	DS131A	1104
D3V	1104	D48	1104	D1421	2035	DE14	1104	DO88	2011	DS-16NE	1104	DS-131B	1104
D3W	563	D50	1104	D1445	1104	DE14A	1104	DP100	1114	DS16NE	1104	DS131B	1104
D3Y	561	D53	2041	D2201M	1104	DE16	1104	DR1	1104	DS-16NY	1104	DS-132	1104
D3Z	1104	D65C	1104	D2201N	1104	DE16A	1104	DR1PR	1104	DS-16YA	1104	DS-132A	1104
D4D24	2030	D68	1104	D2600EF	1104	DE-201	1104	DR2	1104	DS-17	1104	DS132A	1104
D4D25	2009	D69	2041	D3005VN	2041	DE201	1104	DR3	1104	DS17(ADMIRAL)	1104	DS-132B	1104
D4D26	2009	D77	1102	D3356	1102	DER1	1114	DR4	1104	DS-17-6A	1104	DS132B	1104
D4L	1114	D77(DIODE)	1102	D3436	1104	D-F1	2001	DR5	1104	DS17N	1104	DS159	561
D4M	1104	D80	2041	D3530	1101	DF1	2001	DR100	1104	DS-18	1104	DS160(G.E.)	1104
D4R	1123	D81	2041	D6462	1102	DF-2	2041	DR200	1104	DS18	1104	DS-410	1102
D4R26	1104	D81K	1104	D6623	1104	DFFY007001	1102	DR291	1123	DS-18(DELCO)	1123	DS410	1123
D4R39	1104	D82	2041	D6623A	1104	DG1N	1104	DR300	1104	DS18N	1104	DS-410(AMPEX)	1102
D5B	564	D82A	2041	D6624	1104	DG1PR	1104	DR351	1123	DS-19(RECTIFIER)	1104	DS410(COURIER)	1102
D5G	1104	D85C	1114	D6624A	1104	D-GM-2	1123	DR352	1123	DS21	2007	DS410(EMERSON)	1102
D5R35	1104	D88	1114	D6625	1104	DGM-2	1123	DR365	1123	DS-22	2007	DS410(FANON)	1102
D5R39	1104	D100	1104	D6625A	1104	DGM-3	1123	DR385	1123	DS22	2007	DS410(G.E.)	1123
D5V	1102	D101	2001	D6726	1123	DGM3	1123	DR400	1104	DS23	2007	DS-410(MOTOROLA)	
D5W	561	D105C	1114	D8410	1123	DH-001	1104	DR426	1123	DS25	2007		2009
D6HZ	1104	D108	1114	D10167	1104	DH-002	1104	DR427	1104	DS-27	1123	DS410(OLYMPIC)	1102
D6.2	561	D133	2030	D10168	1104	DH4R2	1104	DR434	1123	DS27	1123	DS410(WESTINGHOUSE)	
D7A30	2008	D144S	1104	D21489	1104	DH14	1104	DR435	1104	DS-28(DELCO)	2007		1102
D7E	1102	D146	2041	D101167	1104	DH14A	1104	DR449	1123	DS31	1123	DS410R	1102
D7Z	1102	D147	2041	D917254-2	2009	DH16	1104	DR464	1123	DS-31(DELCO)	1102	DS410R(G.E.)	1123
D8HZ	1114	D151	2041	D919039-2	1122	DH16A	1104	DR500	1104	DS31(DELCO)	1123	DS-430	1104
D8U	562	D160	2011	D921881-1	2009	DHD800	1102	DR600	1104	DS-32	1123	DS430	1104
D10B1051	2011	D161	2001	D926640-1	2009	DHD805	1102	DR668	1104	DS32	1123	DS441	1102
D10B1055	2011	D162	2001	D928121	2009	DHD805(ZENER)	564	DR669	1104	DS-33	1123	DS-442	1102
D10G1051	2011	D163	2041	D4000411	017	DHD806	1102	DR670	1104	DS33(DELCO)	1123	DS442	1102
D10G1052	2011	D164	2041	D34003220-001	1102	DHD8001	1102	DR671	1104	DS-38	1104	DS-442(SEARS)	1102
D11	2001	D167	2001	DA000	1104	DI-1	1123	DR695	1104	DS38(CRAIG)	1104	DS442FM	1102
D11C1F1	2030	D175	2041	DA001	1104	DI-2	1123	DR698	1104	DS38(SANYO)	1104	DS448	1102
D11C2D1B20	2030	D176	562	DA002	1104	DI-3	1102	DR699	1104	DS41	2005	DS-509	2041
D11C5F1	2030	D180M	2041	DA058	1114	DI-7	1104	DR700	1114	DS-43	562	DS509	2041
D-12	1102	D188	2041	DA90	1123	DI7	1104	DR800	1114	DS43	562	DS-514	2041
D12	2041	D188A	2041	DA205	1102	DI-8	562	DR826	1104	DS-44	2009	DS-519	2041
D15	2041	D188B	2041	DA2068	1114	DI-8(COURIER)	562	DR848	1104	DS44	2009	DS519	2041
D15A	1104	D188C	2041	DAAY002001	1104	DI-8(DIODE)	1123	DR863	1104	DS-45	2009	DS1005-1X8628	1122
D15C	1104	D195	2001	DAAY003002	1102	DI-20	1102	DR900	1114	DS45	2009	DSI-104-2	1122
D16	2041	D195A	2001	DAAY004001	1102	DI-42S	1104	DR1000	1114	DS-46	2009	DS-IM	1104
D16E7	2009	D200	1104	DAAY010092	562	DI42S	1104	DR1575	1102	DS46	2009	DSS16685	1123
D16E9	2009	D200MP	1102	DANZ006000	1123	DI-46	1104	DR5101	1104	DS-47	2009	DT18(CHAN.MASTER)	
D16EC18	2009	D201	2041	DANZ0060000	1123	DI46	1104	DR5102	1104	DS47	2009		1104
D16G6	2015	D201(O)	2041	DASZ158800	1102	DI-52S	1104	DRC-87540	2009	DS48	562	DT161	2009
D16K1	2011	D201M	2041	DBCZ039404	2013	DI52S	1104	DRS1	1104	DS-51	2004	DT230A	1102
D16K2	2011	D201Y	2041	DBCZ073304	2009	DI-55	1104	DRS101	1104	DS-52	2004	DT230F	1102
D16K3	2011	D211	2041	DBCZ073504	2010	DI-56	1104	DRS102	1104	DS53	2007	DT230G	1102
D16K4	2011	D212	2041	DBCZ083905	2013	DI56	1104	DRS104	1104	DS56	2007	DT1510	2030
D-18	562	D215	2001	DBCZ083906	2009	DI-71	1104	DRS106	1104	DS58(SANYO)	1104	DT1511	2030
D18	1104	D-215-1	1122	DBCZ136406	2009	DI-72S	1104	DRS107	1114	DS-65	2004	DT1520	2038
D19	2001	D220	1104	DC-13	1123	DI72S	1104	DRS108	1114	DS-66	2009	DT1602	2012
D20	2001	D220M	1104	DC8457	1102	DI-172S	1104	DS-0065	1104	DS66	2009	DT1603	2012
D21	2001	D227	2009	DD-000	1104	DI-645	1104	DS0065	1104	DS-66L	2009	DT1610	2030
D22	2001	D227(DIODE)	1104	DD-003	1104	DI645	1104	DS-1	1104	DS-66W	2009	DT1612	2012
D23	2001	D227A	2009	DD003	1104	DI-646	1104	DS1	1104	DS-67	2009	DT1613	2012
D24A3394	2016	D227B	2009	DD-006	1104	DI646	1104	DS1-002-0	1102	DS67	2009	DT4011	2041
D25	1104	D227C	2009	DD006	1104	DI-647	1104	DS1B	2009	DS-67W	2009	DT4110	2041
D25A	1104	D227D	2009	DD-007	1104	DI-648	1104	DS-1K	1114	DS67W	2009	DT4111	2041
D25B	1104	D227E	2009	DD007	1104	DI-649	1104	DS1K	1104	DS-71	2011	DT4120	2041
D25C	1104	D227F	2009	DD056	1104	DI-650	1114	DS1K7	1104	DS71	2031	DT4121	2041
D26A	2041	D227L	2009	DD058	1114	DI-705	1104	DS-1M	1104	DS-72	2011	DTS-103	2041
D26B	2041	D227R	2009	DD-79D107-1	2041	DI-1649	1104	DS-1N	1104	DS72	2031	DU3	2009
D26B1	2016	D227S	2009	DD175C	1104	DI1649	1104	DS1N	1104	DS-73	2011	DU400	1104
D26B2	2016	D227W	2009	DD176C	1104	DICR1	1114	DS-1P	1104	DS73	2011	DU600	1104
D26C	2041	D241H	2041	DD177C	1104	DID	1114	DS1P	1104	DS-74	2011	DU800	1114
D26C1	2031	D286	1123	DD236	1104	DIE	1104	DS-1U	1104	DS74	2031	DU1000	1114
D26C2	2031	D292(CHAN.MASTER)		DD266	1104	DIJ	1104	DS2	2001	DS-75	2030	DW6034/M	2009
D26C3	2011		2011	DD268	1114	DIJ61224	1123	DS2K	1104	DS75	2011	DW-6505	2009
D26E-2	2016	D294	2009	DD2066	1104	DIJ70486	1102	DS2M	1114	DS-76	2009	DW-7375	2009
D26E2	2011	D300	1104	DD2068	1114	DIJ70488	1104	DS2N	1104	DS76	2009	DX520	1104
D26E-3	2016	D327	2009	DD2320	1104	DIJ70542	1123	DS2N22	1104	DS-77	2009	DX6873	1123
D26E-6	2016	D327A	2009	DD2321	1104	DIJ70544	1104	DS4	2001	DS77	2009	DX7429	1122
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D29A4	2033	D328	2009	DDAY008001	561	DIJ71273	1102	DS-10	1104	DS83	2034	E09-306112	1102
D29F1	2034	D342	2009	DDAY010002	562	DIJ71711	1102	DS11	2001	DS-88	2035	E-075L	1104
D29F2	2034	D353	1102	DDAY010005	562	DIJ71776	1123	DS12	2001	DS88	2035	E075L	1104
D30A1	2034	D355	1102	DDAY042001	1104	DIJ71778	1123	DS-13	1104	DS89	1104	E0704-W	1104
D30A2	2034	D372BL	2009	DDAY047001	1102	DIJ71895-1	1102(2)	DS-13(COURIER)	1104	DS-94	2009	E-0704W	1104
D32K1	2009	D400	1104	DDAY047005	1102	DIJ71958	1104	DS-13A(SANYO)	1104	DS-97	1102	E0771-3	562
D32K2	2009	D400(RECT.)	1104	DDAY048001	1102	DIJ71959	1104	DS-13B(SANYO)	1104	DS97	1123	E0771-7	563
D32P1	2016	D500	1104	DDAY048008	1102	DIJ71960	1102	DS-14(DIODE)	1104	DS97(DELCO)	1102	E0788-C	1104
D32P2	2016	D600	1104	DDAY048012	1102	DIJ72164	1102	DS-16(SEARS-DIODE)		DS99	562	E0788C	1104
D32P3	2016	D800	1114	DDBY002001	1104	DIJ72165	562		1104	DS104	1102	E03090-002	1104
D33D21	2009	D912	2009	DDBY209003	2014	DIJ72166	1123	DS-16A	1104	DS-117	1102	E03155-001	1104
D33D22	2009	D975	1101	DDBY216002	2013	DIJ72168	1104	DS16A	1104	DS117	1102	E03155-002	1104
D33D24	2009	D976	1101	DDBY219001	2013	DIJ72172	562	DS-16A(SANYO)	1114	DS-130	1104	E1	1104
D33D25	2009	D1000	1114	DDBY222002	2009	DIJ72293	561	DS-16B	1104	DS130	1104	E1A	2011
D33D26	2009	D1101	2035	DDBY224003	2009	DIJ72294	1123	DS-16B(SANYO)	1104	DS-130B	1104	E1M3	1114
D33D27	2009	D1102	2035	DDBY231002	2020	DIJ72349	1123	DS-16B(SYLVANIA)	1104	DS130B	1104	E1N3	1114
D33D28	2009	D1172S	1104	DDBY233001	2009	DIK	1114	DS16C	1104	DS-130C	1104	E2	1104
D36	2001	D1177	2035	DDBY270001	2009	DIL	1104	DS-16C(SANYO)	1104	DS-130E	1104	E3	1104
D40N1	2012	D1178	2035	DDBY273001	2010	DIS-1S	1104	DS-16D	1104	DS130E	1104	E5	1104
D40N2	2012	D1180	2035	DDBY277002	2013	DIS1S	1104	DS-16D(SANYO)	1104	DS130ND	1104	E6	1104
D40N3	2012	D1181	2035	DDBY283001	2010	DK19	1123	DS-16E	1104	DS130Y	1104	E8	1114
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E13-002-03	2009	EA15X31	2009	EA15X8601	2013	EA2770	2009	ED1502E	2013	EF100	1114	EP57X5	1104
E13-003-00	2009	EA15X37	2009	EA15X8609	2009	EA2770(N)	2031	ED1502R	2009	EG100	1104	EP57X12	1104
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E13-005-02	2009	EA15X52	2009	EA16X5	1123	EA3149	2009	ED1704L	2009	EH16X20	1102	EP600	1104
E13-007-00	2012	EA15X56	2009	EA16X8	1104	EA3278	2035	ED1804	1104	EK159	2007	EP800	1114
E13-017-01	1102	EA15X58	2009	EA16X9	1123	EA3447	1102	ED1892	1104	EL75	2013	EP1000	1114
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E14C350	1104	EA15X63	2009	EA16X20	1102	EA3719	563	ED2108	1104	EL232	2009	EP-1428-2H	1104
E20C30	1123	EA15X68	2009	EA16X21	1104	EA3827	1104	ED2109	1104	EL238	2009	EP1428-2H	1104
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E41	1104	EA15X77	2009	EA16X33	1104	EC100	1114	ED2845	1104	EM402	1104	EQ-09R	562
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E106(ELCOM)	1104	EA15X85	2009	EA16X48	1123	EC961	2041	ED2848	1114	EM405	1104	EQA01-09	562
E108(ELCOM)	1114	EA15X86	2009	EA16X49	1102	ECG100	2007	ED2849	1114	EM406	1104	EQA01-09R	562
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E500L	1104	EA15X134	2011	EA16X80	561	ECG123A	2009	ED2921	1104	EM510	1114	EQB01-09	562
E650L	1104	EA15X135	2011	EA16X82	562	ECG130	2041	ED2922	1114	EM1021	1104	EQB01-12	563
E750(ELCOM)	1104	EA15X136	2009	EA16X84	1102	ECG132	2035	ED2923	1114	EM-1171	1104	EQB01-12A	563
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E756(ELCOM)	1104	EA15X142	2009	EA16X97	1123	ECG171	2012	ED3000	1104	EMS72272	1122	EQB01-12Z	563
E758(ELCOM)	1114	EA15X143	2009	EA16X101	1102	ECG177	1102	ED3000A	1104	EMS-73500	2009	EQB01-15	564
E760(ELCOM)	1114	EA15X153	2009	EA16X110	1102	ECG229	2013	ED3000B	1104	EN10	2030	EQB01-15Z	564
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E1018N	1104	EA15X163	2009	EA16X134	1102	ECG312	2036	ED3001B	1104	EN697	2016	EQF-0009	2036
E1121R	1102	EA15X165	2035	EA16X135	1122	ECG313	2016	ED3002	1104	EN706	2016	EQF-3	2035
E1124	1104	EA15X167	2009	EA16X140	1123	ECG316	2015	ED3002A	1104	EN708	2016	EQF-4	2035
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E1146R	1104	EA15X189	2009	EA57X3	1104	ECG732	702	ED3003A	1104	EN916	2016	EQS-0100	2013
E1153RB	1104	EA15X190	2009	EA57X8	1104	ECG740	1725	ED3003B	1104	EN918	2015	EQS-0159	2020
E1156RD	1104	EA15X192	2035	EA57X10	1104	ECG740A	1725	ED3003S	1104	EN930	2009	EQS-0165	2010
E1157RNA	1104	EA15X193	2035	EA57X11	1104	ECG778	038	ED3004	1104	EN1132	2023	EQS-0192	2010
E1178R	1102(2)	EA15X213	2009	EA57X14	1104	ECG804	702	ED3004A	1104	EN2219	2009	EQS-0196	2014
E1410	1104	EA15X237	2009	EA75X1	1104	ECG909	017	ED3004B	1104	EN2222	2009	EQS-0198	2013
E1411	1104	EA15X239	2009	EA100	1114	ECG923D	1740	ED3005	1104	EN2369A	2016	EQS-5	2009
E1412	1104	EA15X240	2009	EA1072	1104	ECG940	1733	ED3005A	1104	EN2484	2009	EQS-9	2009
E1413	1104	EA15X241	2010	EA1080	2009	ECG941	007	ED3005B	1104	EN3009	2016	EQS-13	2009
E1415	1104	EA15X246	2009	EA1123	1123	ECG941D	010	ED3006	1104	EN3011	2016	EQS-18	2011
E1440	1104	EA15X272	2009	EA1128	2009	ECG5012	561	ED3006A	1104	EN3013	2016	EQS-19	2038
E1852	563	EA15X325	2009	EA1129	2009	ECG5013	561	ED3006B	1104	EN3014	2016	EQS-20	2038
E2412	2007	EA15X330	2009	EA1135	2009	ECG5017	562	ED3007	1114	EN3250	2034	EQS-22	2009
E2427	2001	EA15X331	2009	EA1145	2009	ECG5018	562	ED3007A	1114	EN3903	2016	EQS-61	2009
E2428	2001	EA15X336	2014	EA1318	563	ECG5070	561	ED3007B	1114	EN3904	2016	EQS-62	2030
E2429	2001	EA15X355	2009	EA1344	2009	ECG5073	562	ED3008	1114	EN3905	2034	EQS-64	2009
E2430	2009	EA15X361	2009	EA1345	2009	ECG5452	1067	ED3008A	1114	EN3906	2034	EQS-100	2009
E2431	2009	EA15X364	2014	EA1405	1102	ECG5453	1067	ED3008B	1114	EN5172	2011	EQS-139	2013
E2436	2009	EA15X365	2014	EA1406	2009	ECG5454	1067	ED3009	1114	EO65	2007	EQS-141	2020
E2444	2009	EA15X367	2014	EA1407	2009	ECG5455	1067	ED3009A	1114	EO66	2007	ER1	1104
E2452	2009	EA15X370	2009	EA1408	2009	ECR600-2	1104	ED3009B	1114	EO67	2007	ER1B22-15	1104
E2454	2009	EA15X371	2009	EA1448	1104	ED2(ELCOM)	1101	ED3010	1114	EO68	2007	ER2	1104
E2455	2009	EA15X373	2010	EA1451	2009	ED3(ELCOM)	1101	ED3010A	1114	EO105	2007	ER11	1104
E2459	2009	EA15X376	2013	EA1452	2009	ED-4	1104	ED3010B	1114	EO704	1104	ER12	1104
E2461	2009	EA15X378	2010	EA1499	2009	ED4	1104	ED219464	1123	EO771-3	562	ER21	1104
E-2462	2004	EA15X379	2009	EA1564	2009	ED4(ELCOM)	1123	ED224548	1104	EP5X5	1104	ER22	1104
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E2497	2009	EA15X401	2036	EA1581	2009	ED5	1104	ED329128	1104	EP15X1	2009	ER41	1104
E2499	2009	EA15X412	2009	EA1628	2009	ED-6	1104	ED329130	1104	EP15X2	2009	ER42	1104
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E4002	2001	EA15X7112	2009	EA1630	2009	ED6(ELCOM)	1123	ED494583	1104	EP15X7	2009	ER57X2	1104
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E21431	561	EA15X7215	2011	EA1718	2009	ED-46	1123	EDG-3	1123	EP15X42	2013	ER103D	1104
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EA005	1104	EA15X7233	2013	EA1778	2009	ED53	2007	EDJ-363	1104	EP15X49	2009	ER105D	1104
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EA0092	2009	EA15X7244	2013	EA2140	1104	ED150Z	2009	EDS-0014	1102	EP16X3	1123	ER181	1104
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EA060	1104	EA15X7517	2009	EA2496	2011	ED1402B	2009	EDS-11	1104	EP16X20	1102	ER186	1114
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ER501	1104	ES85(ELCOM)	2009	EVR5A	561	F9623	2009	FMPSA20	2009	FV-22	561	G05-065-A	2013
ER510	1104	ES89	2012	EVR5B	561	F9623F	2009	FN-51-1A	2009	FV22	561	G05-413B	2009
ER601	1104	ES89(ELCOM)	2012	EVR9	562	F10124	1104	FO5	1104	FV-23	1123	G08-005L	2035
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ER1001	1114	ES10186	2011	EVR9B	562	F10180	1104	FOS104	2016	FV-24	561	G01036	562
ERB11-01	1104	ES10188	2011	EVR12	563	F11034	1114	FPR40-1001	2009	FV914	2016	G01036A	561
ERB22-15	1104	ES10189	1123	EVR12A	563	F15840	2009	FPR40-1006	1123	FV918	2038	G01036G	562
ERB24	1104	ES10222	2009	EVR12B	563	F15840-1	2009	FPR50-1001	2009	FV2369A	2016	G01209	1102
ERB24(GE)	1104	ES10223	2009	EVR15	564	F20303	1123	FPR50-1002	2009	FV2747C	2007	G01209B	1102
ERB24-06	1104	ES10224	1123	EVR15A	564	F75116	2009	FPR50-1011	1104	FV2894	2034	G01211	1104
ERB-24-06A	1104	ES10225	1123	EVR15B	564	FA-1(DIODE)	1123	FR-1	1104	FV3014	2016	G01803	1102
ERB24-06A	1104	ES10232	2009	EW163	2011	FA-1(SEARS)	2009	FR1	1104	FV3299	2016	G01803A	1102
ERB24-06B	1104	ES10233	1104	EW164	2011	FA-4	1114	FR1D	1102	FW100	1104	G04041B	2011
ERB24-06C	1114	ES10234	563	EW165	2011	FA4	1104	FR-1H	1104	FW200	1104	G05015C	2009
ERB2406A	1104	ES15046	2011	EW165V	2009	FA6	1104	FR-1H(M)	1104	FW400	1104	G05035E	2009
ERD300	1104	ES15047	2011	EW166	1123	FA8	1114	FR-1HM	1104	FW500	1104	G05036	2009
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ERD700	1114	ES15050	2009	EW169B	1104(2)	FA8009	564	FR1M	1104	FW600A	1104	G05036C	2009
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ERS100	2012	ESA-06	1104	EX16X27	1102	FB1043	1123	FR-1N	1104	FX709	2011	G05059	2009
ERS120	2012	ESK-1	1104	EX76-X	1104	FB6853	2009	FR-1P	1104	FX914	2016	G08005L	2035
ERS140	2012	ESK1	1104	EX142-X	1102	FBC237	2009	FR1P	1104	FX918	2038	G0Q-535-B	1104
ERS160	2012	ESK1/06	1104	EX499-X	2009	FBN-36220	2041	FR-1U	1104	FX2368	2016	G1	1104
ERS180	2012	ESKE40C500	1104	EX500-X	2009	FBN-36485	2041	FR1U	1104	FX2369A	2016	G1HA	1123
ERS200	2012	ESKE125C500	1114	EX695-X	2009	FBN-36603	2041	FR-2	1104	FX2894	2034	G2	1104
ERS225	2012	ESQ-141	2020	EX746-X	2032	FCD0003PC	1102	FR2	1104	FX3013	2016	G2A	1104
ERS250	2012	ET6	1104	EX748-X	2009	FCD0014NCS	1102	FR2(S1B1)	1104	FX3014	2016	G3	1104
ERS275	2012	ET8	2001	EX868-X	2012	FCS1168F813	2009	FR2-02	1104	FX3299	2016	G4	1104
ERS301	2012	ET9	2001	EX888-X	2009	FCS1168G	2009	FR2-02(DIO)	1104	FX3300	2010	G5	1104
ERS325	2012	ET10	2001	EYV-320D1R2J	1102	FCS1168G704	2009	FR2-06	1104	FX4046	2010	G5C	1123
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ES15X1	2009	ET15X10	2009	EYZP-632	2009	FCS9011F	2009	FR2M	1104	FZ12T10	563	G7	1101
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ES15X11	2009	ET15X12	2009	EZ9(ELCOM)	562	FCS9014(B)	2009	FR2P	1104	FZ15T5	564	G7D	1123
ES15X12	2009	ET15X13	2009	EZ12(ELCOM)	563	FCS9016	2009	FR-10	1114	FZ15T10	564	G7E	1123
ES15X14	2009	ET15X14	2009	EZ15(ELCOM)	564	FCS9016E	2009	FR10	1104	FZ101	2009	G7F	1123
ES15X16	2009	ET15X15	2009	EZ150	564	FCS-9016F	2014	FR-202	1104	FZ1215	563	G7G	1123
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ES15X22	2010	ET15X20	2009	F05	1104	FCS-9016G	2014	FRH-101	1104	G00004A	1123	G9.1T5	562
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ES15X58	2009	ET15X42	2009	F5	1104	FD06193	1122	FS-1133	2030	G00-009-A	1123	G12T10	563
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ES15X64	2009	ET15X54	2031	F8	1114	FD6	1104	FS1168F813	2009	G00-012A	1102	G15T10	564
ES15X66	2011	ET16X1	1123	F10	1114	FD100	1102	FS1221	2009	G00-013-8	1123	G15T20	564
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ES15X68	2009	ET16X13	1101	F14-C	1104	FD200	1102	FS1974	2009	G00-502-A	1104	G17	2001
ES15X70	2009	ET16X14	1101	F-14A	1114	FD222	1102	FS2003-1	2041	G00-534-A	1104	G18	2001
ES15X76	2009	ET16X15	563	F14A	1114	FD300	1104	FS2043	2009	G00-535-B	1104	G23-45	2041
ES15X80	2011	ET16X16	1104	F14B	1114	FD333	1104	FS27604	2009	G00-535A	1104	G23-67	2041
ES15X81	2011	ET16X16X	1104	F14C	1114	FD600	1122	FS32669	2011	G00-536-A	1104	G100	1123
ES15X82	2011	ET16X19	1123	F14D	1114	FD777	1122	FS36999	2009	G00-536A	1104	G100A	1104
ES15X83	2009	ET16X20	1123	F14E	1114	FD-1029-DF	1104	FSP1	2011	G00-543-A	1104	G100B	1104
ES15X84	2009	ET16X21	1123	F14F	1114	FD-1029-DG	1104	FSP-288-1	1104	G00-551-A	1104	G100D	1104
ES15X85	2009	ET41X37	1123	F14H	1114	FD-1029-GP	1122	FST2	1104	G00-803-A	1102	G100G	1104
ES15X92	2035	ET51X25	1104	F14J	1114	FD-1029-JA	2009	FST3	1104	G005-036C	2009	G100J	1104
ES15X97	2011	ET52X25	1104	F16H1	561	FD-1029-LL	2009	FT005	2009	G005-036E	2009	G100K	1114
ES15X102	2011	ET55-25	1104	F20-1010	1123	FD-1029-MC	1102	FT006	2009	G00502A	1104	G100M	1114
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ES15X125	2012	ET57X29	1104	F20-1015	1104	FD1599	1104	FT024	2033	G01-036-G	562	G158	1123
ES15X127	2010	ET57X30	1104	F20-1016	1104	FD1708	1102	FT025	2016	G01-036A	561	G159	1123
ES16(ELCOM)	2041	ET57X35	1104	F24T-011-013	2011	FD1843	1102	FT026	2016	G01-037-A	563	G182AG	1101
ES16X2	1123	ET57X38	1104	F24T-011-015	2011	FD1980	1123	FT053	2009	G01-083-A	1102	G198	1123
ES16X3	1123	ET200	1104	F24T-016-024	2011	FD3389	1104	FT-1	1104	G01-209-B	1102	G199	1123
ES16X4	1102	ET400	1104	F121-546	2009	FD6451	1102	FT1	1104	G01-209B	1102	G200	1123
ES16X5	1123	ET234843	2009	F121-433804	2009	FD6489	1102	FT1(SHARP)	1104	G01-217-A	1102	G222	1104
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ES16X7	1123	ET368021	2009	F215-1010	1123	FDH400	1104	FT1N	1104	G01-803A	1102	G297	1123
ES16X9	1104	ET412626	2009	F215-1012	1123	FDH444	1102	FT-10	1104	G01A	1101	G409	1123
ES16X10	1104	ET491051	2035	F215-1013	1123	FDH666	1102	FT10	1114	G02	1104	G498	1123
ES16X12	1123	ETD-1N60	1123	F215-1014	1123	FDH694	1102	FT14A	1104	G02A	1101	G580	1123
ES16X13	1104	ETD-10D1	1104	F215-1016	1104	FDH900	1102	FT34G	2036	G04-041B	2011	G657	1104
ES16X14	1123	ETD-10D2	1104	F215-1017	1104	FDH6229	1102	FT34Y	2035	G05-003-A	2011	G659	1104
ES16X23	1102	ETD-SD46	1123	F222	2009	FDM1006	1102	FT40	2030	G05-003-B	2011	G700	1104
ES16X24	1102	ETD-V06C	1104	F-302-1	2009	FDM1007	1102	FT107B	2016	G05-010-A	2009	G701	1104
ES16X25	1104	ETP2008	2008	F302-1	2009	FDN600	1102	FT118	2016	G05-011-A	2009	G702	1104
ES16X27	1102	ETP3923	2012	F302-2	2009	FDN666	1102	FT1341	2016	G05-015-D	2009	G766	1123
ES16X30	1102	ETS-003	2041	F-302-1532	2009	FE-100	2036	FT1746	2034	G05-015C	2009	G769	1123
ES16X32	1102	ETS-068	2009	F302-1532	2009	FE100	2036	FT3567	2009	G05-034-D	2009	G770	1123
ES16X38	1104	ETTC-458LG	2009	F-302-2532	2009	FE5245	2036	FT3569	2009	G05-035-D	2009	G788	1123
ES16X40	1102	ETTC-CD8000	2009	F302-2532	2009	FG-2NA	1104	FT3643	2009	G05-035E	2009	G789	1123
ES16X103	1123	ETTC-CD12000	2009	F306-001	2009	FG-12377	1102	FT5040	2032	G05-036-B	2009	G790	1123
ES20(ELCOM)	2009	ETTC-CD13000	2009	F306-022	2009	FH100	1101	FU1M	1104	G05-036-C	2009	G814	1123
ES25	2007	ETT-CDC-12000	2009	F366	2009	FI-1023	2011	FU-1MA	1104	G05-036-C,D,E	2009	G815	1123
ES26	2007	ETX18	2009	F572-1	2009	FK914	2016	FU-1N	1104	G05-036-D	2009	G816	1123
ES31(ELCOM)	2041	EU15X4	1101	F587	2009	FK918	2038	FU1N	1104	G05-036-E	2009	G820	1123
ES46	2009	EU16X1	1123	F1462	2035	FK2369A	2016	FU-1NA	1104	G05-036B	2009	G821	1123
ES46(ELCOM)	2009	EU16X2	1123	F1463	2035	FK2894	2034	FU1U	1104	G05-036C	2009	G822	1123
ES47X1	1104	EU16X4	1101	F2443	2009	FK3014	2016	FU5B7709393	017	G05-036D	2009	G823	1123
ES51	1104	EU16X7	1104	F2448	2009	FK3299	2016	FU5B7740393	1733	G05-036E	2009	G824	1123
ES53(ELCOM)	2009	EU16X14	1101	F2584	2009	FK3484	2030	FU5B7741393	007	G05-037-A	2009	G825	1123
ES57X1	1104	EU16X19	1123	F3519	2009	FK3494	2030	FU6A7723393	1740	G05-037-B	2009	G844	1123
ES57X2	1104	EU57X30	1104	F3532	2009	FLV110	026	FU6A7741393	010	G05-037-D	2013	G845	1123
ES57X4	1104	EU57X40	1104	F3569	2009	FLV112	040	FU9A7723393	1740	G05-037B	2009	G846	1123
ES57X5	1104	EVD-3	1102	F3571	2009	FM1J2	1104	FU9A7741393	010	G05-050-C	2011	G847	1123
ES57X12	1102	EVM511	1104	F7316	2030	FM211N	1104	FU-IM	1104	G05-063-R	2013	G868	1123

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G1010	1123	GE-19	2041	GI-2715	2016	GRF-3	2035	H50	1104	HAR10	1104	HD2000110-0	1104
G1010A	1102	GE-20	2009	GI2715	2009	GS73E/3	1123	H100	1104	HAR15	1104	HD2000206	1102
G1242	1104	GE-22	2032	GI2716	2009	GS9014	2031	H102	2009	HAR20	1104	HD2000301	1104
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G9423	2013	GE-27	2012	GI2921	2009	GS9014J	2031	H200	1104	HB3	1104	HD2000305	1104
G9600	2009	GE-50	2004	GI-2922	2031	GS9018F	2031	H300	1104	HC-00372	2013	HD2000307	1104
G9600(G.E.)	2009	GE-60	2016	GI2922	2009	GS9023H	2031	H316	1123	HC-00380	2011	HD-2000308	1104
G9623	2009	GE-61	2016	GI-2923	2031	GS9023I	2031	H400	1104	HC-00394	2013	HD2000308	1104
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G9696	2009	GE-86	2015	GI-2924	2010	GSM52	1104	H500	1104	HC-00460	2009	HD2000501	1104
G10119	1104	GE-210	2010	GI2924	2009	GSM53	1104	H585	1104	HC-00461	2009	HD2000510	1104
G16506	2001	GE-211	2016	GI-2926	2010	GSM54	1104	H600	1104	HC-00535	2030	HD2000703	1104
G101079	2001	GE-213	2009	GI-3394	2016	GSM482	1104	H616	1104	HC-00537	2009	HD2000903	1104
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G395967	2009	GE-278	2013	GI-3416	2010	GT2	2007	H620	1104	HC-00784	2011	HD-3000301	1104
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G657061	1122	GE-300	1102	GI-3605	2016	GT11	2007	H623	1102	HC-00829	2011	HD3001109	564
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GA53149	2007	GE-327	2038	GI-3638	2034	GT14	2005	H626	1104	HC-00871	2009	HD10000101	1123
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GC33	2007	GE3638	1123	GI3704	2009	GT33	2007	H890	1104	HC-01390	2009	HE-1N34	1123
GC34	2007	GE6063	1102	GI-3705	2014	GT34S	2007	H891	1104	HC-01417	2009	HE-1N34A	1123
GC35	2007	GE6366	1104	GI3705	2009	GT-35	2001	H931	2009	HC-01820	2009	HE-1N60	1123
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GC181	2007	GE-FET-2	2036	GI-3707	2010	GT81	2007	H1000	1114	HC-2	1114	HE-1S426	1123
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GC532	2007	GEIC-262	1733	GI-3710	2010	GT100	2007	H8513	1102	HC68	1104	HE-10024	1123
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GC1144	2009	GET708	2016	GI-P100-D	1104	GT229	2001	H20052	1104	HC371	2009	HE-M8489	1102
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GD1E	1123	GET888	2007	GLA62B	561	GT761	2007	HA15	2007	HC381	2011	HEP53	2009
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GD4E	1123	GET890	2007	GLA91A	562	GT762	2007	HA50	1104	HC454	2011	HEP55	2009
GD5E	1123	GET891	2007	GLA91B	562	GT762R	2007	HA-52	2007	HC458	2009	HEP56	2038
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GD12	1104	GET914	2016	GME1002	2009	GT832	2007	HA300	1104	HC535	2011	HEP134	1123
GD12E	1123	GET2221	2033	GME2001	2009	GT-903	2001	HA400	1104	HC535A	2011	HEP135	1123
GD13E	1123	GET2221A	2009	GME2002	2009	GT904	2001	HA500	1104	HC535B	2011	HEP154	1104
GD-25	1123	GET2222	2009	GME4001	2009	GT-905	2001	HA600	1104	HC537	2011	HEP156	1104
GD-26	1123	GET2222A	2009	GME4002	2009	GT905	2001	HA800	1114	HC539	2009	HEP157	1104
GD-29	1123	GET2369	2016	GME4003	2009	GT905R	2001	HA1000	1114	HC545	2011	HEP158	1104
GD-30	1123	GET2483	2016	GME6001	2011	GT-947	2001	HA5001	2001	HC-561	2030	HEP159	1114
GD72E/3	1123	GET3013	2016	GME6002	2011	GT947	2001	HA5002	2001	HC561	2009	HEP160	1114
GD72E/4	1123	GET3014	2016	GME6003	2009	GT948	2001	HA5003	2001	HC670	1104	HEP161	1104
GD72E/5	1123	GET3562	2015	GMO-380	2030	GT948R	2001	HA5005	2001	HC680	1104	HEP162	1104
GD73E/4	1123	GET3563	2015	GO0535	1104	GT949	2001	HA5009	2001	HC700	1104	HEP170	1114
GD73E/5	1123	GET3638	2023	GO4-041B	2009	GT949R	2001	HA5011	2001	HC710	1104	HEP247	2041
GD74E/3	1123	GET3638A	2023	GO5-003-A	2009	GT1200	2001	HA5012	2001	HC720	1114	HEP607	564
GD74E/4	1123	GET3646	2016	GO5-003-B	2009	GT1201	2001	HA5014	2001	HC730	1114	HEP641	2001
GD74E/5	1123	GET3903	2016	GO5-004A	2011	GT1202	2001	HA5016	2001	HC-772	2030	HEP704	2041
GD101	1122	GET3904	2016	GO5-010-A	2009	GT1604	2007	HA5020	2001	HC784	2011	HEP709	2038
GD102	1122	GET3905	2034	GO5-011-A	2009	GT1605	2007	HA5021	2001	HC1000217	007	HEP720	2038
GD400	1123	GET3906	2034	GO5-015-C	2009	GT1606	2007	HA5022	2001	HC1000217-0	010	HEP721	2011
GD401	1123	GEX8	2001	GO5-036-C,D,E	2009	GT1607	2007	HA5023	2001	HCL-29	2009	HEP722	2016
GD402	1123	GEX36	1104	GO5-036B	2009	GT1608	2001	HA5024	2001	HCL-6066	2009	HEP723	2016
GD403	1123	GEX66	1104	GO5-036C	2009	GT1609	2001	HA5025	2001	HCV	1104	HEP724	2009
GD404	1123	GEZD-6.2	561	GO5-036E	2009	GT1644	2021	HA5026	2001	HD-00227	2009	HEP725	2009
GD405	1123	GEZD-9.1	562	GO5-037B	2009	GT1658	2001	HA7507	2032	HD-1	1104	HEP727	2016
GD406	1123	GEZD-12	563	GO5-050-C	2030	GT2693	2007	HA7536	2032	HD10-001-01	1123	HEP728	2009
GD409	1123	GEZD-15	564	GO8-005L	2035	GT2694	2007	HA7630	2023	HD20-003-01	1104	HEP729	2009
GD-510	1102	GEZJ252A	1104	GO1036	562	GT2695	2007	HA7632	2023	HD-187	2001	HEP731	2013
GD510	1123	GEZJ252B	1104	GO1209	1102	GT2765	2001	HA7804	2023	HD1468	1123	HEP732	2016
GD556	1123	GI1	2007	GO1211	1102	GT2766	2001	HA7806	2023	HD2000	1104	HEP733	2016
GD663	1123	GI-1N4385	1104	GO1803	1102	GT2767	2001	HA7808	2023	HD2000-301	1104	HEP734	2016
GD1001	1123	GI5	2001	GO5036	2009	GT2884	2001	HA7810	2023	HD2149	1123	HEP735	2009
GD3638	1102	GI6	2001	GO5059	2009	GT2886	2001	HA7815	2023	HD2155	1123	HEP738	2009
GD3638-00	1123	GI7	2001	GOO-003-A	1123	GT2888	2001	HA9048	2034	HD6001	1102	HEP801	2035
GD5004	1123	GI8	2001	GOO-502-A	1104	GT2906	2001	HA9049	2034	HD6125	1102	HEP802	2035
GE-1	2007	GI10	2009	GP08B	1104	GT3150	2001	HA9054	2022	HD6147	1104	HEP-C6090	702
GE-1N506	1104	GI-100-1	1104	GP-1	1104	GT5148	2003	HA9055	2022	HD6865	1104	HEPC6090	702
GE-1N5061	1104	GI237	1114	GP1	1104	GTE1	2007	HA9056	2022	HD200207	1104	HEP-C6102P	038
GE-5	2001	GI-300D	1104	GP2-345	1102	GTE2	2007	HA9057	2022	HD200301	1104	HEPC6102P	038
GE-6	2001	GI411	1104	GP2-345/MA161	1102	GTJ33350	1101	HA9058	2022	HD-1000101	1123	HEP-C6103P	017
GE6.2	561	GI420	1104	GP25G	1104	GTV	2007	HA9059	2022	HD1000101	1123	HEPC6103P	017
GE6.2A	561	GI-2711	2016	GP230	1104	GV5760	1102	HA9078	2022	HD1000101-0	1123	HEPF0010	2036
GE6.2B	561	GI2711	2009	GP250	1104	GV6063	2009	HA9079	2022	HD1000301	1123	HEP-F0015	2035
GE-7	2001	GI-2712	2016	GP-354	1123	GVL20077	2009	HA9531	2023	HD1000302	1123	HEPF0015	2035
GE-8	2001	GI2712	2009	GP2354	1123	GVL20226	1122	HA9531A	2023	HD1000303	1123	HEP-F0021	2036
GE-10	2031	GI-2713	2016	GPM1NA	1123	GVL20265	1122	HA9532	2023	HD1000303-0	1123	HEPF0021	2036
GE-11	2038	GI2713	2009	GPM1NB	1123	GVL20327-1	1122	HA9532A	2023	HD-2000106	1102	HEPG0004	2007
GE-14	2041	GI-2714	2010	GPM2NA	1123	GZ6.2	561	HA17723	1740	HD2000106	1102	HEPG0005	2007

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HEPG0005P/G	2007	HF-20088	1123	HR8A	2007	HST4454	2012	HT304581B-0	2009	HV46GR	1104	IP20-0122	2009
HEPG0006	2007	HF-20095	1102	HR9A	2007	HST5002	2012	HT304581B	2009	HV46GR(DIODE)	1104	IP20-0145	1102
HEPG0006P/G	2007	HF-20105	1104	HR10	1104	HST5003	2012	HT304581B-O	2031	HV-80	1102	IP20-0154	2020
HEPG0007	2007	HF-20124	1102	HR-11	2009	HST5004	2012	HT304581C	2009	HV80	1102	IP20-0167	1104
HEPG0007P/G	2007	HF200191A-0	2035	HR11	1104	HST5005	2012	HT304601BO	2009	HV-100	1104	IP20-0179	2013
HEP-G0011	2001	HF200191A0	2036	HR-11A	2009	HST5006	2012	HT304601CO	2009	HV460R	1102	IP20-0184	1102
HEPR0050	1104	HF200191A	2035	HR11A	2009	HST5007	2012	HT304861B	2009	HV-801	1123	IP20-0191	2010
HEPR0051	1104	HF200191A/	2035	HR-11B	2009	HST5008	2012	HT304941X	2041	HW9.1	562	IP20-0192	2009
HEPR0052	1104	HF200191AO	2036	HR11B	2009	HST5009	2012	HT305351CO	2030	HW9.1A	562	IP20-0203	561
HEPR0053	1104	HF200191B-0	2035	HR-13	2009	HST5010	2012	HT305361E	2009	HW9.1B	562	IP20-0216	1102
HEPR0054	1104	HF200191B0	2035	HR13	1104	HST5051	2012	HT305361G	2009	HW12	563	IR1D	1104
HEP-R0700	1101	HF200191BO	2035	HR-13A	2009	HST5052	2012	HT305371E	2009	HW12A	563	IR2A	1104
HEPR0700	1101	HF200301B0	2035	HR13A	2009	HST5053	2012	HT306441	2009	HW12B	563	IR2E	1104
HEP-R9001	1102(2)	HF200301B	2035	HR14	2009	HST5054	2012	HT306441A	2009	HW15	564	(IR)2SC372	2013
HEP-R9002	1102(2)	HF200301BO	2035	HR-14A	2009	HST5055	2012	HT306441B-0	2009	HW15A	564	(IR)2SC380AO	2013
HEP-R9003	1102(2)	HF200301C-0	2036	HR14A	2009	HST5056	2012	HT306441B0	2009	HW15B	564	(IR)2SC454B	2010
HEP-R9134	1123	HF200301C-O	2035	HR-15A	2009	HST5502	2012	HT306441B	2009	HX50002	2009	(IR)2SC458B	2010
HEPR9134	1123	HF200301E	2035	HR15A	2009	HST5503	2012	HT306441C-0	2009	HX50003	2011	(IR)2SC460B	2013
HEPR9134A	1123	HF200411B	2035	HR-16	2009	HST5504	2012	HT306441C	2009	HX-50063	2009	(IR)2SC537B	2014
HEP-R9135	1123	HF2000411B	2035	HR16	2009	HST5505	2012	HT306451A	2011	HX-50072	2009	(IR)2SC682A	2013
HEPS0002	2010	HF-DS410	1102	HR-16A	2009	HST5507	2012	HT306451H	2030	HX-50110	2009	(IR)2SC710	2014
HEP-S0004	2009	HF-MV2	1102	HR16A	2009	HST5508	2012	HT306962A-O	2030	HX-50113	2009	(IR)2SC717	2030
HEPS0004	2009	HFOW05	1104	HR-17	2009	HST5509	2012	HT307321A	2009	HY3045801C	2009	(IR)2SC772	2013
HEP-S0008	2013	HF-SD1	1104	HR17	2009	HST5510	2012	HT307321B-0	2009	HZ-6B	561	(IR)2SC828A	2013
HEPS0008	2016	HF-SD-1A	1104	HR-17A	2009	HST5551	2012	HT307321B-O	2009	HZ-6C	561	(IR)2SC829B	2009
HEPS004	2009	HFSD1A	1104	HR17A	2009	HST5552	2012	HT307322A	2009	HZ-9	562	(IR)2SC838	2009
HEP-S0010	2013	HFSD1B	1104	HR-18	2009	HST5553	2012	HT307331B	2009	HZ-9B	562	IR5JA	1123
HEPS0010	2038	HF-SD-1C	1104	HR18	2009	HST5554	2012	HT307331C0	2009	HZ9B	562	IR20	1104
HEP-S0011	2009	HF-SD-1Z	1104	HR-18A	2009	HST5555	2012	HT307331C	2009	HZ-12	563	IRC20	1067
HEPS0011	2010	HFSG005	1104	HR18A	2009	HST5556	2012	HT307341B	2009	HZ-12A	563	IRTR05	2007
HEPS0015	2010	HG1090	1123	HR-19	2009	HST5906	2020	HT307341C-0	2009	HZ-12B	563	IRTR08	2002
HEPS0016	2038	HG5002	1123	HR19	2009	HST7402	2012	HT307720B	2011	HZ-212	563	IRTR09	2001
HEPS0017	2038	HG5004	1123	HR-19A	2009	HST7403	2012	HT307721C	2011	I9A115728-2	2009	IRTR11	2007
HEP-S0020	2013	HG5006	1123	HR19A	2009	HST7412	2012	HT307721D	2011	I964(6	1102	IRTR12	2004
HEPS0020	2038	HG5007	1123	HR-32	2009	HST7413	2012	HT308281B	2009	I85436	1102	IRTR17	2004
HEP-S0022	2009	HG5008	1123	HR32	2009	HST7415	2012	HT308281C	2009	IC-20	1740	IRTR20	2032
HEPS0024	2016	HG5009	1123	HR-36	2009	HST7416	2012	HT308281G	2009	IC-20(PHILCO)	1740	IRTR22	2030
HEPS0025	2010	HG5078	1123	HR36	2009	HST9002	2012	HT308281O	2009	IC-23	1725	IRTR24	2010
HEP-S0030	2009	HG5079	1123	HR-37	2009	HST9003	2012	HT308282A-0	2009	IC23	1725	IRTR51	2030
HEPS0030	2016	HG5085	1123	HR37	2009	HST9005	2012	HT308282A	2009	IC37(ELCOM)	1733	IRTR-58	2043
HEP-S0033	2013	HG5088	1123	HR-38	2009	HST9006	2012	HT308282A-O	2009	IC-40(ELCOM)	007	IR-TR59	2041
HEPS0033	2016	HG5808	1123	HR39	2011	HST9008	2012	HT308291A	2011	IC40(ELCOM)	007	IRTR-60	2012
HEPS3013	2038	HGR1	1104	HR-40	2004	HST9009	2012	HT308291A-O	2011	IC-53(ELCOM)	1740	IRTR60	2012
HEP-S7002	2041	HGR2	1104	HR-43	2004	HST-9201	2041	HT308291B-0	2011	IC53(ELCOM)	1740	IRTR-61	2041
HEPS7002	2041	HGR3	1104	HR-45	2004	HST-9205	2041	HT308291B0	2011	IC-109(ELCOM)	010	IRTR61	2041
HEP-S7004	2041	HGR4	1104	HR-48	2009	HST-9206	2041	HT308291B	2011	IC-210(ELCOM)	017	IRTR-62	2009
HEPS7004	2041	HGR-5	1104	HR48	2009	HST-9210	2041	HT308291B-O	2009	IC210(ELCOM)	017	IRTR62	2009
HEP-Z0214	561	HG-R10	1104	HR-58	2011	HT040519C	2001	HT308291BO	2009	IC-296(ELCOM)	038	IRTR63	2009
HEPZ0214	561	HGR-10	1104	HR-59	2011	HT-23G	1102	HT308291C	2011	IC317(ELCOM)	007	IRTR-70	2038
HEP-Z0219	562	HGR-20	1104	HR-60	2009	HT100	2022	HT309291E	2011	IC-531(ELCOM)	1740	IRTR70	2038
HEPZ0219	562	HGR-30	1104	HR62	2009	HT101	2022	HT309301D	2011	IC-602(ELCOM)	702	IRTR-71	2016
HEP-Z0222	563	HGR-40	1104	HR63	2009	HT400	2013	HT309842A-0	2009	IC743040	2013	IRTR71	2016
HEP-Z0225	564	HGR-60	1104	HR64	2009	HT401	2013	HT340519C	2001	IC743041	2013	IRTR79	2012
HEP-Z0408	561	HIFI	1104	HR65	2009	HT30494	2041	HT401191	2041	IC743042	2009	IRTR86	2009
HEPZ0408	561	HJ22D	2007	HR66	2009	HT30494X	2041	HT401191A	2041	IC743046	2035	IRTRFE100	2035
HEP-Z0412	562	HJ41	2007	HR76	2011	HT38281D	2009	HT401191B	2041	IC743047	562	IS-446D	1102(2)
HEPZ0412	562	HJ56	2007	HR77	2013	HT104941B-O	2032	HT800011F	2009	IC743048	1104	ISD-162	2001
HEP-Z0415	563	HJ75	2004	HR78	2013	HT105611BO	2032	HT800011G	2009	IC743049	1122	ISD162	2001
HEP-Z0418	564	HK-00049	2036	HR79	2011	HT105621BO	2032	HT800011H	2009	IC743050	1123	IT22	1123
HE-SD1	1104	HK-00330	2035	HR80	2011	HT303620B	2009	HT800011K	2009	IC743051	1102	IT23	1123
HF-0SW05	1104	HKT-158	2009	HR84(NPN)	2009	HT303711A0	2009	HT3036201	2009	IE12Z5	563	IT23G	1123
HF0W05	1104	HKT-161	2009	HR87	2013	HT303711A	2011	HT3036210	2009	IE460B	2009	IT108	2036
HF1	2009	HL24510	007	HS133	1101	HT303711A-O	2030	HT3037210	2009	IE850	2009	IT120	2010
HF-1B	1104	HL24593	007	HS902A	1101	HT303711AO	2009	HT3037210-0	2009	IM4004	1104	IT121	2010
HF-1S334	562	HL24630	017	HS1001	1104	HT303711B-0	2009	HT3037210-O	2031	IN60-1	1123	IT122	2013
HF-1S339	562	HM-00049	2007	HS1002	1104	HT303711B0	2009	HT3037310	2011	INJ60284	1123	IT205A	2004
HF-1Z	1104	HM9.1	562	HS1003	1104	HT303711B	2011	HT3038013-B	2011	INJ61224	1123	IT918	2038
HF2	2009	HM9.1A	562	HS1007	1104	HT303711B-O	2030	HT3073310	2009	INJ61225	561	IT918A	2013
HF3	2009	HM9.1B	562	HS1008	1104	HT303711BO	2009	HT8000710	1104	INJ61227	1104(2)	IT918A	2013
HF4	2009	HM12	563	HS1009	1104	HT303711C	2011	HT8001810	2009	INJ61433	1102	IT929	2013
HF5	2009	HM12A	563	HS1010	1104	HT303721-0	2009	HT30373100	2009	INJ61434	1104	IT930	2013
HF6	2009	HM12B	563	HS1011	1104	HT303721D	2009	HV0000105	1104	INJ61675	1123	IT2218	2009
HF7	2009	HM13	563	HS1012	1104	HT303730	2009	HV0000105-0	1104	INJ61677	1102	IT2219	2009
HF8	2009	HM13A	563	HS1020	1104	HT303730A	2009	HV0000206	1102	INJ61725	1102	IT2221	2009
HF22	2041	HM15	564	HS-1168	2009	HT303801	2011	HV00003u2	2011	INJ61726	1104	IT2222	2009
HF-40	2009	HM15A	564	HS-1229	2009	HT303801A0	2011	HV0000406	1104	INJ70980	1123	IT2483	2010
HF43	2012	HM15B	564	HS2062	561	HT303801A	2011	HV0000502	1102	IP20-0001	2009	IT2904	2023
HF50	2009	HN-00002	1102	HS2120	563	HT303801AO	2009	HV0000705	1104	IP20-0002	2009	IT2905	2023
HF-2003	1122	HN-00003	1123	HS2150	564	HT303801B-0	2011	HV00001050	1102	IP20-0003	2009	IT2906	2023
HF-10024	1123	HN-00005	563	HS3103	1104	HT303801B0	2011	HV-15	1123	IP20-0006	2009	IT2907	2023
HF-20004	562	HN-00008	1104	HS3104	1104	HT303801B	2011	HV15	1123	IP20-006	2013	ITC918A	2013
HF-20008	1123	HN-00012	562	HS3108	1114	HT303801B-O	2009	HV-23	1102	IP20-0010	2036	ITE4416	2036
HF-20011	562	HN-00018	1104	HS3110	1114	HT303801BO	2009	HV23	1102	IP20-0011	2035	ITT73	1102
HF-20014	1102	HN-00024	562	HS5810	2030	HT303801C0	2011	HV23(DIODE)	1102	IP20-0012	2035	ITT73N	1122
HF-20032	1104	HN-00029	1104	HS5814	2030	HT303801C	2011	HV-23(ELGIN)	1104	IP20-0015	1123	ITT200	1122
HF20032	1102	HN-00032	1104	HS7062	561	HT303801CO	2009	HV23(TRANSISTOR)		IP20-0016	1123	ITT350	1104
HF-20034	1102	HN-0047	1102	HS7091	562	HT304508K	2031		2009	IP20-0018	564	ITT402	1104
HF-20041	563	HO89	563	HS7120	563	HT304531	2009	HV-23BL	1123	IP20-0019	562	ITT413	1102
HF-20042	1104	HO91	1123	HS7150	564	HT304531A	2009	HV23F	2009	IP20-0020	1123	ITT709(METAL-CAN)	017
HF-20047	1104	HP-5A	1104	HS-40017	2009	HT304531B	2009	HV-23G(BL)	1102	IP20-0021	1102	ITT709-5(METAL-CAN)	
HF-20048	1102	HP205	1104	HS-40020	2009	HT304531C	2009	HV-25	1102	IP20-0022	1104		017
HF-20050	1104	HP5082-2800	1122	HS-40037	2009	HT304540AO	2009	HV25	2009	IP20-0023	1102	ITT723(D.I.P.)	1740
HF-20052	1104	HP35860A	2013	HS-40039	2009	HT304540B0	2009	HV-25(DIODE)	1102	IP20-0024	1104	ITT723-5(D.I.P.)	1740
HF-20060	1102	HR-05A	1104	HS-40044	2009	HT304540BO	2009	HV25(HITACHI)	1102	IP20-0025	1104	ITT741(D.I.P.)	010
HF20060	1102	HR-2A	1104	HS-40046	2009	HT304580	2009	HV-25(RCA)	1102	IP20-0026	1114	ITT741(METAL-CAN)	007
HF-20061	1102	HR-2A(PENNCREST)		HS40046	2009	HT304580A	2009	HV-26	1104	IP20-0029	2014	ITT741-5(D.I.P.)	010
HF-20063	1102		1104	HS-40054	2014	HT304580B	2009	HV26	1104	IP20-0035	2036	ITT741-5(METAL-CAN)	
HF-20064	1102	HR4A	2007	HS-40055	2009	HT304580C0	2009	HV-26G	1104	IP20-0039	2010		007
HF-20065	562	HR5	2007	HSFD-1A	1104	HT304580CO	2031	HV-27	1102	IP20-0040	2013	ITT921	1102
HF-20066	1104	HR-5A	1104	HSFD-1Z	1104	HT304580K	2009	HV-46	1104	IP20-0041	2009	ITT992	1104
HF20066	1104	HR5A	1104	HSFD-1Z(SONY-STANDBY		HT304580Y0	2009	HV46	1104	IP20-0054	1104	ITT7215	1102
HF-20067	1104	HR5A8E	1104		1104	HT304580YO	2031	HV46#OR#(DIODE)		IP20-0061	1102	IX8055-379005N	1122
HF-20071	1114	HR-5AX2	1104	HST4451	2012	HT304580Z	2009		1104	IP20-0078	2036	J-05	1104
HF-20083	1104	HR-5B	1104	HST4452	2012	HT304581	2009	HV46(DIODE)	1104	IP20-0110	2013	J-1	1104
HF-20084	1104	HR5B	1104	HST4453	2012	HT304581A	2009	HV-46GR	1104	IP20-0120	1104	J-2	1104

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J2-4570	1104	JC-00028	1104	K4G5	1104	K49H	2035	KC2DP	1104	LAA800	1104	LRR-100	1104
J-4	1104	JC-00032	1104	K4H5	1114	K49H(1-GATE)	2035	KC2DP11/1	1104	LC.09M	1104	LRR100	1104
J-6	1104	JC-00033	1104	K4K5	1114	K49HK(1-GATE)	2035	KC2DP12/1	1104(2)	LD128	1101	LRR-200	1104
J100	1104	JC-00035	1104	K4M5	1114	K49I	2035	KC2DP12/1N	1104	LD128(RCA)	1101	LRR200	1104
J107	2011	JC-00037	1104	K5A5	1104	K49I(1-GATE)	2035	KC2DP12/2	1104	LDA400	2016	LRR-300	1104
J139A	2009	JC-00044	1104	K5B5	1104	K49M(1-GATE)	2035	KC2DP121N	1104	LDA400MP	2016	LRR300	1104
J241	1123	JC-00045	1104	K5C5	1104	K52	1123	KC2DP122	1104	LDA401	2010	LRR-400	1104
J242	1123	JC-00047	1104	K5D5	1104	K55(1-GATE)	2036	KC2DP221	1104	LDA401MP	2016	LRR400	1104
J243	1123	JC-00049	1104	K5E5	1104	K55D(1-GATE)	2036	KC2DP221B	1104	LDA402	2010	LRR-500	1104
J308	2036	JC-00051	1104	K5F5	1104	K55E(1-GATE)	2036	KC2G11/1	1104	LDA404	2009	LRR500	1104
J685	1123	JC-00055	1104	K5G5	1104	K60	1123	KC2G11/1+12/1	1104	LDA406	2038	LS-0085-01	2009
J961B(G.E.)	2009	JC-00059	1104	K5H5	1114	K115J511-2	1123	KC2G11/1&12/1	1104	LDA410	2013	LS3705	2009
J2441	1123	JC-0025	1104	K5K5	1114	K119J804-5	1102	KC2G12/1	1104	LDA414	2038	LS5484	2035
J20437	1104	JC-10D1	1104	K5M5	1114	K120Y(1-GATE)	2035	KC13C221	1104	LDA420	2016	LS5485	2035
J20438	563	JC-DS16E	1104	K6	1123	K121J688-1	2011	KC1322/1	1104	LDA454	2034	LT1016(E)	2009
J24127	1104	JC-KS05	1104	K10	2035	K170(1-GATE)	2035	KCO-8CP	1104	LDS200	2016	LT1016H	2013
J24262	561	JCN1	1104	K11(1-GATE)	2035	K170R(1-GATE)	2035	KCO-8CP11/1+12/1		LDS201	2016	LT1016I,H	2009
J24458	2009	JCN2	1104	K11-0(1-GATE)	2035	K198L	2035		1104	LDS202	2023	LT1016T,H	2009
J24561	2011	JCN3	1104	K11-R(1-GATE)	2035	K200	1104	KD27	1123	LDS205	2038	LTE1016	2013
J24562	2011	JCN4	1104	K11-Y(1-GATE)	2035	K882	1123	KD2102	2009	LDS206	2031	LTH1016	2013
J24563	2011	JCN5	1104	K12(1-GATE)	2035	K2001	2011	KD2103	1104	LDS207	2013	LTI1016	2011
J24564	2009	JCN6	1104	K12-3(1-GATE)	2035	K2109	2015	KD2104	1104	LDS208	2033	M-0027	1104
J24565	2009	JCN7	1114	K12-GR(1-GATE)	2035	K2110	2015	KD2124	2001	LDS210	2033	M0027	1104
J24570	1104	JC-SD-1X	1104	K12-R(1-GATE)	2035	K2111	2015	KD2503	561	LDS257	2022	M,KIM,I-/U	1123
J24624	2009	JC-SD-1Z	1104	K13(1-GATE)	2035	K2112	2015	KD2504	562	LH740A	1733	M1-301	1102
J24625	2009	JC-SD1Z	1104	K14-0066-4	2007	K2113	2015	KD2505	563	LH740AC	1733	M1H	1104
J24630	1104	JC-SG005	1104	K14-0066-6	2013	K2114	2015	KD5000	2011	LID929	2013	M1S-12795B	2041
J24631	561	JC-V03C	1104(2)	K14-0066-12	2031	K2115	2015	KE-262	1104	LID930	2013	M2N168A	2001
J24632	562	JCV-2	1104	K15-0(1-GATE)	2035	K2116	2015	KE-1007	2041	LL-2	1104	M4HZ	1104
J24641	2009	JCV2	1104	K15-GR-(1-GATE)	2035	K2117	2015	KE4416	2036	LL2	1104	M4Z6.2	561
J24643	1123	JCV-3	1104	K15-R(1-GATE)	2035	K2118	2015	KE5105	2036	LLB-23	2009	M4Z6.2-20	561
J24645	1104	JCV3	1104	K15-Y(1-GATE)	2035	K2119	2011	KGE41007	1104	LM377	702	M4Z6.2A	561
J24647	1104	JCV7	1114	K17	2035	K2120	2011	KGE41055	2009	LM-377N	702	M4Z9.1	562
J24658	2009	JD-00040	1104	K17(1-GATE)	2035	K2121	2011	KGE41959	1123	LM377N	702	M4Z9.1-20	562
J24701	2011	JD-BB1A	1104	K17A(1-GATE)	2035	K2122	2011	KGE46109	1102	LM380	1725	M4Z9.1A	562
J24752	2009	JD-SD1D	1104	K17B(1-GATE)	2035	K2123	2011	KLH704	2009	LM-566	1724	M4Z12	563
J24753	2009	JDSD1D	1104	K17BL(1-GATE)	2035	K2124	2011	KLH1422	2009	LM-567	1721	M4Z12-20	563
J24755	1102	JD-SD1Z	1104	K17GR(1-GATE)	2035	K2125	2011	KLH4567	1104	LM709C	017	M4Z12A	563
J24756	1104	JE1033B	2035	K17R(1-GATE)	2035	K2126	2011	KLH4577	1104	LM709CH	017	M4Z15	564
J24817	2009	JE9011	2009	K17Y(1-GATE)	2035	K2127	2011	KLH4763	1102	LM723CD	1740	M4Z15-20	564
J24833	2007	JE9011H	2009	K19	2035	K2501	2011	KLH4792	2011	LM741	007	M4Z15A	564
J24842	2030	JF-1033	2035	K19(1-GATE)	2035	K2502	2011	KOS25201-1	1123	LM741C	007	M6HZ	1104
J24843	2009	JF1033	2036	K19(GR)	2035	K2503	2011	KOS25201-2	1123	LM741CH	007	M8HZ	1114
J24844	2013	JF1033G	2036	K19BL(1-GATE)	2035	K2509	2011	KOS25671-20	2013	LM741CN	010	M9Z	562
J24845	2009	JF1033S	2035	K19GC	2035	K2601C	2011	KOS25671-21	2013	LM741H	007	M12	1104
J24846	2031	JL-40A	1102	K19GC(1-GATE)	2035	K2602C	2011	KOS25671-23	2013	LM1090E	2009	M12Z	563
J24855	2009	JL40A	1102	K19GE(1-GATE)	2035	K2603C	2011	KPG6682	2009	LM1090F	2009	M14	1104
J24871	1104	JLM-20	2009	K19GR	2035	K2604	2011	KR8417	2030	LM1090G	2009	M15Z	564
J24874	2009	JM-40	1102	K19GR(1-GATE)	2035	K2604C	2011	KR-Q0005	1123	LM1110B	2011	M22	1104
J24877	1104	JM40	1102	K19Y	2035	K2615	2011	KR-Q1013	2009	LM1117D	2009	M24	2009
J24878	2009	JM401	1102	K19Y(1-GATE)	2035	K2616	2011	KS-05	1104	LM1120B	2011	M24A	2009
J24903	2011	JN271	2009	K22(1-GATE)	2035	K4002	2011	KS05	1104	LM1120C	2011	M24B	2009
J24906	2009	JR40	2001	K22-Y(1-GATE)	2035	K8532799	1104	KS-05X	1104	LM-1129	2009	M25	2009
J24907	2009	JSP7001	2009	K22Y(1-GATE)	2035	K8533058-1	1104	KS062A	561	LM-1130	2009	M25A	2009
J24909	2009	JT-1601-40	2009	K23(1-GATE)	2035	KA4559	2035	KS37A	561	LM-1132	2009	M25A2	2009
J24911	1123	JT-1601-41	1101	K23A	2035	KB102	1102	KS37AF	561	LM-1133	2009	M25B	2009
J24912	1102	JT-E1014	1123	K25(1-GATE)	2035	KB-162	1102	KS41A	562	LM1133	2010	M25B2	2009
J24913	1123	JT-E1024D	1104	K25C(1-GATE)	2035	KB162	1102	KS41AF	562	LM1138	2013	M26	1102
J24914	1123	JT-E1031	1123	K25D(1-GATE)	2035	KB-162C5	1102	KS44A	563	LM1138E	2013	M-31	1104
J24916	2009	JT-E1064	1104	K25E(1-GATE)	2035	KB-162C5A	1102	KS44AF	563	LM1138E/F	2013	M34A	1123
J24919	1104	K0120SA	1102	K25ET(1-GATE)	2035	KB162N	1102	KS44B	563	LM1138F	2013	M42	1104
J24920	1104	K071964-001	2041	K25F(1-GATE)	2035	KB-165	1102	KS44BF	563	LM1138G	2013	M51	1123
J24935	1104	K1A5	1104	K25G(1-GATE)	2035	KB165	1102	KS46	564	LM1138G/F	2013	M54	2009
J24939	1104	K1B5	1104	K30-0(1-GATE)	2035	KB169	1102	KS46AF	564	LM1138H	2013	M54A	2009
J24940	1104	K1C5	1104	K30A(1-GATE)	2035	KB-182	1104	KS46BF	564	LM1138H/I	2013	M54B	2009
J101183	1104	K1D5	1104	K30AD(1-GATE)	2035	KB-262	1102	KS120A	563	LM1138I	2013	M54BLK	2009
J241054	2009	K1E5	1104	K30AGR(1-GATE)	2035	KB262	1104	KS120B	563	LM-1147	2009	M54BLU	2009
J241099	2009	K1F5	1104	K30B(1-GATE)	2035	KB-265	1102	KS150A	564	LM-1148	2009	M54BRN	2009
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J241102	1104	K1H5	1104	K30D(1-GATE)	2035	KB265A	1102	KS2062A	561	LM-1155	2009	M54D	2009
J241142	1104	K1K5	1114	K30GR(1-GATE)	2035	KB265A(RECT)	1104	KS2062B	561	LM-1158	1104	M54E	2009
J241177	2011	K1M5	1114	K30R(1-GATE)	2035	KB-269	1102	KS2091A	562	LM-1159	1102	M54GRN	2009
J241179	561	K1.3G22A	1104	K30Y	2035	KB269	1102	KS2091B	562	LM1159	1102	M54ORN	2009
J241182	1102	K2A5	1104	K30Y(1-GATE)	2035	KB8339	2009	KS2120A	563	LM-1160	1104	M54RED	2009
J241188	2011	K2B5	1104	K31(1-GATE)	2035	KB8416	2030	KS2120B	563	LM1160	1104	M54WHT	2009
J241189	2011	K2C5	1104	K31C	2035	KC0-8CP	1104	KS2150A	564	LM1403	2009	M54YEL	2009
J241209	1104	K2D5	1104	K31C(1-GATE)	2035	KC0-8CP11/1+12/1	1104	KS2150B	564	LM1415-6	2009	M60	1123
J241210	1104	K2E5	1104	K33(1-GATE)	2035	KC0-8CP11/1&12/1	1104	KS-19938	2041	LM1415-7	2009	M62	1104
J241211	1104	K2F5	1104	K33(E)	2035	KC06E11/8	1104	KSD1051	2041	LM1458M	038	M67	1104
J241212	1104	K2G	1104	K33E	2035	KC08C11/8	1104	KSD1055	2041	LM1458N	038	M67A	1104
J241213	1102	K2G5	1104	K33E(1-GATE)	2035	KC08C11/10	1104	KSD1056	2041	LM1540	2009	M67B	1104
J241214	1104	K2H5	1114	K33F	2035	KC08C21/5	1104	KSD3055	2041	LM1614M	2009	M67C	1104
J241230	2009	K2K5	1114	K33F(1-GATE)	2035	KC08C22/19	1104	KSD9707	2041	LM1818	2009	M68	1104
J241232	1104	K3	1123	K33GR	2035	KC08C215	1104	KSKE12C500	1114	LM-1862	1104	M68A	1104
J241234	1102	K3AST47	1101	K33GR(1-GATE)	2035	KC08C221	1104	KSKE40C200	1104	LM1862	1104	M68B	1104
J241235	1102	K3B5	1104	K34	2035	KC08C1110	1104	KSKE40C500	1104	LN75497	2041	M68C	1104
J241242	1102	K3C5	1104	K34(1-GATE)	2035	KC-0691L/8	1104	KSKE125C200	1114	LP1H	1104	M69	1104
J241245	1123	K3D5	1104	K34(E)	2035	KC0911/8	1104	KSO62A	561	LP2H	1104	M69A	1104
J241251	2009	K3E	1101	K34B(1-GATE)	2035	KC06911	1104	KSO91A	562	LP3H	1104	M69B	1104
J241260	1104	K3F5	1104	K34C	2035	KC0.8	1104	KT218	2016	LP4H	1104	M69C	1104
J241271	1104	K3G5	1104	K34C(1-GATE)	2035	KC0.8CP	1104	KT218F	2016	LPM9.1	562	M70	1104
J310249	2009	K3H5	1114	K34D	2035	KC0.8CP11	1104	KX-1	1102	LPM9.1A	562	M70A	1104
J310250	2009	K3K5	1114	K34D(1-GATE)	2035	KC0.8CP11/1	1104	L3/2H	1104	LPM12	563	M70B	1104
J320020	1104	K3M5	1114	K34E	2035	KC0.8CP11/1+121Y	1104	L4	2016	LPM12A	563	M70C	1104
J320041	1123	K4-506	2009	K34S747(1-GATE)	1101	KC0.8CP11/1&121Y	1104	L6/2H	1104	LPM15	564	M71	1104
JA1200	2009	K4-525	2041	K37(1-GATE)	2035	KC0.8CP12/1	1104	L8/2H	1104	LPM15A	564	M71A	1104
JA-H	2009	K4-550	1123	K37H(1-GATE)	2035	KC1.3C	1104	L32H	1104	LPZT12	563	M71B	1104
JA-L	2009	K4-555	1104	K37L(1-GATE)	2035	KC1.3C3X11/1	1104	L62H	1104	LPZT15	564	M71C	1104
JAM702C	1104	K4-557	1104	K42	2035	KC1.3C22/1	1104	L82H	1114	LR62CH	561	M72	1114
JB-00030	1104	K4A5	1104	K47	2035	KC1.3G12/1X2	1104	L1458M	038	LR91CH	562	M72A	1114
JB-00036	1104	K4B5	1104	K47M	2035	KC1.3G22/1A	1104	LA300	1104	LR120CH	563	M72B	1114
JB-BB1A	1104	K4C5	1104	K47M(1-GATE)	2035	KC1.3G22/12	1104	LA600	1104	LR150CH	564	M72C	1114
JC-00012	1104	K4D5	1104	K49	2035	KC2BP22/1B	1104	LA800	1104	LRQ849	2009	M73	1114
JC-00014	1104	K4E5	1104	K49F	2035	KC2D22/1	1104	LAA300	1104	LRR-50	1104	M73A	1114
JC-00025	1104	K4F5	1104	K49F(1-GATE)	2035	KC2D221	1104	LAA600	1104	LRR50	1104	M73B	1114

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
M73C	1114	M-1002-17-NC	2009	M9282	2009	MC19	1104	ME4102	2009	MK-10-E	2035	MPS-2716	2009
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M91A06	1114	M4464	2009	M9321	2041	MC456	1104	ME9001	2016	MM3	1104	MPS2924	2009
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M500	1104	M4816	562	MA0413	2034	MC6016	563	MH67	1104	MM4257	2021	MPS3567	2009
M500A	1104	M4821	2009	MA0414	2034	MC6016A	563	MH68	1104	MM8006	2015	MPS3568	2009
M500B	1104	M4825	2011	MA2	1104	MC6018	564	MH70	1104	MM8007	2015	MPS3638	2032
M500C	1104	M4834	2009	MA3	1123	MC6018A	564	MH71	1104	MMCM918	2011	MPS3640	2021
M604	1104	M4840	2009	MA8	1123	MC6108	561	MH72	1114	MMCM2222	2016	MPS3643	2009
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M670	1104	M4841	2009	MA-25A	1102	MC6116	563	MH670	1104	MMCM2907	2023	MPS3693	2013
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M670B	1104	M4842A	2009	MA-26	1102	MC6118	564	MH700	1104	MMT71	2022	MPS3702	2024
M670C	1104	M4842C	2009	MA26	1102	MC6118A	564	MH710	1104	MMT72	2016	MPS3704	2014
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M690	1104	M4904	2011	MA51A	1123	MD34A	1123	MHT2003	2001	MMT2222	2010	MPS3709	2016
M690A	1104	M4906	2009	MA55	1123	MD46	1123	MHT2004	2001	MMT2369	2016	MPS3710	2010
M690B	1104	M4926	2009	MA90	1123	MD60	1123	MHT2008	2001	MMT2857	2015	MPS3711	2009
M690C	1104	M4933	2009	MA100	2007	MD-60A	1123	MHT2009	2001	MMT3014	2016	MPS3721	2009
M700	1104	M4935	2009	MA101	1104	MD134	1104	MHT2010	2001	MMT3903	2016	MPS3826	2009
M700A	1104	M4937	2009	MA102	1104	MD135	1104	MHT4402	2008	MMT3904	2009	MPS3827	2009
M700B	1104	M4937(3RD-IF)	2010	MA110	1104	MD136	1104	MHT4411	2030	MMT3905	2034	MPS3904	2016
M700C	1104	M4941	2009	MA150	2012	MD137	1104	MHT4453	2012	MMT8015	2011	MPS3906	2034
M701B	1104	M4952	2009	MA161	1102	MD138	1104	MHT4454	2012	MN34A	1123	MPS3992	2009
M702	1114	M4953	2009	MA162	1102	MD604A	1123	MHT5001	2012	MN51	1123	MPS4145	2011
M702B	1114	M4970	2030	MA203	1104	MD753	561	MHT5002	2012	MN54	2009	MPS5172	2009
M702C	1104(2)	M5141T	007	MA211	1104	MD753A	561	MHT5003	2012	MN60(DIODE)	1123	MPS5668	2035
M710	1104	M7003	2009	MA215	1104	MD757	562	MHT5004	2012	MP-01	1104	MPS6351	2009
M710A	1104	M7006	2009	MA242	1104	MD757A	562	MHT5005	2012	MP01	1104	MPS6413	2009
M710B	1104	M7014	2009	MA242C	1104	MD759	563	MHT7413	2012	MP100	1104	MPS6507	2038
M710C	1104	M7015	2009	MA286	2007	MD759A	563	MHT7415	2012	MP225	1104	MPS6511	2016
M720	1114	M7033	2009	MA287	2007	MD2369AF	2009	MHT7416	2012	MP300	1104	MPS6511-S	2013
M720A	1114	M7108	2009	MA350	1104	MD2369BF	2009	MHT7601	2041	MP400	1104	MPS6512	2016
M720B	1114	M7108/A5N	2009	MA351	1104	MD2369F	2009	MHT7602	2041	MP500(RECT.)	1104	MPS6513	2013
M720C	1114	M7109	2009	MA433	1101	MD3133F	2023	MHT7603	2041	MP549	1114	MPS6514	2009
M730	1114	M7109/A5P	2009	MA4101	2013	MDA104	1104	MHT7607	2041	MP651	1104	MPS6516	2034
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M730B	1114	M7543-1	2041	MA4104	2016	MDA920-4	1104	MHT7609	2041	MP1003-2	1104	MPS6521	2009
M730C	1114	M8014(TRANSISTOR)		MA6001	2009	MDA920-6	1104	MHT9008	2012	MP1003-4	1104	MPS6528	2011
M773	2009		2007	MA6002	2038	MDA920-7	1104	MHT9009	2012	MP1014-2	2009	MPS6529	2011
M773RED	2009	M8105	2009	MA6003	2009	MDP173	1102	MI-301	1102	MP5113	1104	MPS6530	2009
M774	2009	M8120	2001	MA9002	2038	ME0404	2034	MI301	1102	MP-5115	1104	MPS6531	2011
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M775	2009	M8221	2009	MA9426	2009	ME0404-2	2034	MI9630	2009	MP4300158	1122	MPS6535	2023
M775BRN	2009	M8222	1104	MAQ7786	2009	ME0413	2022	MIC709-5(METALCAN)		MPC3500	1102	MPS6539	2013
M776	2009	M8399	1104	MB01	1104	ME0414	2022		017	MPF101	2035	MPS6540	2016
M776GRN	2009	M8482	1101	MB244	1104	ME0463	2034	MIC723-5(D.I.P.)	1740	MPF-102	2035	MPS6541	2013
M779	2009	M8482C	1101	MB257	1104	ME-1	2009	MIC741-5(D.I.P.)	010	MPF102	2035	MPS6542	2038
M779BLU	2009	M8482F	1101	MB258	1104	ME-2	2009	MIC741-5(METAL-CAN)		MPF103	2036	MPS6543	2038
M780	2009	M8482FA-4	1101	MB269	1104	ME-3	2009		007	MPF104	2036	MPS6544	2012
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M783	2009	M8489-A	1123	MBD101	1101	ME213	2016	MIS-14150-18A	2001	MPF-106	2036	MPS6548	2038
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M784ORN	2009	M8513	1102	MC015	1104	ME217	2016	MJ481	2041	MPF108	2035	MPS6554	2009
M785	2009	M8513(LAFAYETTE)	1102	MC020	1104	ME501	2023	MJ490	2040	MPF109	2035	MPS6555	2009
M785YEL	2009	M8513A0	1102	MC020A	1104	ME502	2023	MJ491	2043	MPF111	2035	MPS6556	2009
M786	2009	M-8513A	1102	MC021	1104	ME503	2023	MJ2267	2043	MPF112	2035	MPS6561	2009
M787	2009	M8513A	1102	MC021A	1104	ME511	2023	MJ2268	2043	MPM5006	2016	MPS6564	2010
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M791	2009	M8513R	1102	MC022A	1104	ME900	2009	MJ2802	2041	MPN3401	1102	MPS6566	2009
M818	2009	M8569	1102(2)	MC023	1104	ME900A	2009	MJ2840	2041	MPS393	2009	MPS6567	2016
M818WHT	2009	M8640E(C-M)	1102	MC023A	1104	ME901	2009	MJ2841	2041	MPS404A	2034	MPS6568	2016
M822	2009	M8640E(DIO)	1102	MC025	1104	ME901A	2009	MJ2901	2043	MPS654	2011	MPS6568A	2016
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M822B	2009	M9092	2001	MC030B	1104	ME1138	2013	MJE34	2027	MPS706A	2016	MPS-6571	2009
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M847BLK	2009	M9248	2009	MC090	1114	ME4003	2009	MK10	2035	MPS2713	2016	MPS6580	2034
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M-1002-2	2009	M9278	2041	MC2	1102	ME4101	2009	MK10-2	2035	MPS2715	2013	MPS7513	2013

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MPS8001	2016	MPSA42	2012	MS35H	1104	MZ92-15A	564	NK65-4A19	2001	NR-261AS	2009	OA200	1102
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MPS9426A	2009	MPSD03	2012	MS7502R	2009	MZ209B	562	NKT62	2007	NR-461AS	2009	OA541	1123
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MPS9426C	2013	MPSD55	2023	MSR500	1104	MZ212	563	NKT72	2007	NS316	2035	OAZ203	561
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MPS9427B	2013	MPSEL239	2009	MSR-V5	1104	MZ500-11	561	NKT74	2007	NS475	2009	OAZ210	561
MPS9427B.C	2009	MPSH02	2038	MSS-1000	1104	MZ500-15	562	NKT128	2007	NS476	2009	OAZ212	562
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MPS9444	1102	MPSH10	2038	MT022	1104	MZ500.18	563	NKT142	2007	NS480	2009	OAZ247	562
MPS9600	2009	MPSH11	2038	MT022A	1104	MZ605	561	NKT143	2007	NS731	2009	OAZ270	561
MPS9600(G)	2009	MPS-H17	2013	MT0404	2034	MZ610	561	NKT144	2007	NS731A	2009	OAZ272	562
MPS9600F	2009	MPSH17	2008	MT0404-1	2034	MZ620	561	NKT162	2007	NS733	2009	OAZ273	563
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MPS9606	1102	MPSH85	2034	MT44	1104	MZX9.1	562	NKT221	2007	NS1974	2009	OC140	2001
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MPS9606H	1102	MPSK21	2016	MT84	1114	N1X	2012	NKT222S2	2007	NS3039	2011	OC200	2022
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MPS9618(J)	2009	MPX215	1104	MT706	2009	N48	1123	NKT263	2007	NS3904	2016	OC206	2023
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MPS9623E.G	2009	MQ3/2	1104	MT3002	2038	N5723A	1740	NKT10339	2009	NSB5431	1202	OC-343	2009
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MPS9623G	2009	MQ8/2	1104	MT4101	2009	N5741A	010	NKT10439	2009	NSS1021	1114	OF156	1102
MPS9623G/H	2009	MQ32	1104	MT4102	2009	N5741T	007	NKT10519	2009	NU34	1123	OF160	1104
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MPS9625C	2013	MR62C-H	561	MT9002	2038	NA-22	1104	NKT16425	2007	O9-306195	1102	ON271	2009
MPS9625D	2013	MR62E-H	561	MT9003	2015	NA22	1104	NKT20329	2034	O9-309060	2009	ON274	2009
MPS9625E	2013	MR62H	561	MTZ608	561	NA-25	1104	NKT20339	2023	O101	1104	ON47204-1	2009
MPS9625F	2013	MR91C-H	562	MTZ608A	561	NA25	1104	NKT35219	2011	O234	1104	OS70	1123
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MPS9625H	2013	MR120C-H	563	MTZ613A	562	NA-33	1104	NL-10	1104	OA7	1123	OS-16308	1104
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MPS9630H	2009	MR150C-H	564	MTZ616A	563	NA35	1104	NL15	1104	OA9	1123	OSS-16308	1104
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MPS-9630I	2009	MR1031	1114	MTZ618A	564	NA36	1104	NL25	1104	OA9Z	1123	OSS-16685	1123
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MPS9630T	2009	MR1237FL	1104	MV-1	1102	NA45	1104	NL40	1104	OA50	1123	OSS36503	1104
MPS9631	2009	MR1237SB	1104	MV1	1104	NA-46	1104	NL50	1104	OA70	1123	OSS36685	1104
MPS9631(I)	2009	MR1237SL	1104	MV-2	1102	NA46	1104	NL60	1104	OA71	1123	OSS-36885	1104
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MPS9632(K)	2009	MR1337-2	1104	MV11	1104	NA76	1114	NPC0050	1104	OA79	1123	OY5063	1104
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MPS9632J	2009	MR1337-5	1104	MV-13(BIAS)	1104	NA86	1114	NPC079	2023	OA85	1123	OY5066	1104
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MPS9644	1102	MR2262	1104	MVA-05A	1104	NC29	1123	NPC108A	1104	OA-90(G)	1123	OZ12T5	563
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MPS9646J	1102	MR9604	2009	MZ6.2	561	N-EA15X130	2011	NPC189	2016	OA-91	1123	P04-42-0011	1122
MPS9646M	1102	MRD100	2009	MZ6.2A	561	N-EA15X134	2011	NPC737	2009	OA91	1123	P04-44-0028	2009
MPS9682(I)	2032	MRD150	2013	MZ6.2B	561	N-EA15X135	2011	NPC1075	2010	OA92	1123	P04-45-0014-P2	2009
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MPSA10-RED	2016	MS5H	1104	MZ92-6.0B	561	NGP5010	563	NR5	2001	OA159	1123	P1C5	1104
MPSA10-WHT	2016	MS11H	1104	MZ92-6.2A	561	NJ100A	2011	NR-10	2001	OA160	1123	P1D5	1104
MPSA18	2016	MS12H	1104	MZ92-9.1A	562	NJ100B	2009	NR10	2001	OA161	1123	P2A5	1104
MPSA20	2009	MS13H	1104	MZ-92-9.1B	562	NJ102C	2009	NR20	2001	OA172	1123	P2B5	1104
MPSA20-RED	2016	MS14H	1104	MZ92-9.1B	562	NJ202B	2011	NR30	2001	OA174	1123	P2C5	1104
MPSA20-WHT	2016	MS22B	2009	MZ92-12A	563	NK12-1A19	2009	NR201AY	2009	OA180	1104	P2D5	1104

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P3/2H	1104	PA-320A	1104	PE5010	2016	PL4021	2016	PS2208	1104	PTC139	2010	Q5123E	2009
P3A5	1104	PA320A	1104	PE5013	2016	PL4022	2016	PS2209	1104	PTC140	2041	Q5123F	2009
P3B5	1104	PA-320B	1104	PE5015	2016	PL4023	2016	PS2247	1104	PTC151	2035	Q5137BA	2012
P3C5	1104	PA320B	1104	PE5025	2009	PL4031	2023	PS2249	1104	PTC152	2036	Q-10115C	2009
P3D5	1104	PA325	1104	PE5029	2009	PL4033	2023	PS2411	1104	PTC186	2020	Q-14115C	2009
P4A5	1104	PA325A	1104	PE5031	2038	PL4051	2009	PS2412	1104	PTC201	1104	Q-15115C	2009
P4B5	1104	PA325B	1104	PEP2	2009	PL4052	2009	PS2413	1104	PTC202	1104	Q-16115C	2009
P4C5	1104	PA330	1104	PEP5	2009	PL4053	2009	PS2415	1104	PTC205	1114	Q-20115C	1104
P4D5	1104	PA330A	1104	PEP6	2009	PL4054	2009	PS2416	1114	PTC206	1123	Q-21115C	1102
P5A5	1104	PA330B	1104	PEP7	2009	PL4055	2009	PS2417	1114	PTC207M	1123	Q-22115C	1123
P5B5	1104	PA340	1104	PEP8	2009	PL4061	2013	PS4559	1104	PTC214	1102	Q-23115C	1122
P5C5	1104	PA340A	1104	PEP9	2016	PL4062	2013	PS4560	1104	PTC214M	1102	Q-24115C	1102
P5D5	1104	PA340B	1104	PEP95	2016	PL4112	2038	PS4725	1104	PTC215	1102	Q-25115C	562
P6/2H	1104	PA350	1104	PET1002	2009	PM194	2011	PS5300	1104	PTC217	1101	Q-26115C	1104
P6A5	1104	PA350A	1104	PET2001	2016	PM195	2011	PS5301	1104	PTC403	1104	Q35242	2009
P6B5	1104	PA360	1104	PET2002	2009	PM1121	2009	PS5302	1104	PTC406	1102(2)	QA01-07R	564
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P6RP8	1114	PA400	1104	PET3706	2009	PMT1767	2038	PS8915	563	PTC505	562	QA-13	2009
P6RP10	1114	PA600	1104	PET4002	2009	PN70	2023	PS-8917	564	PTC507	563	QA-14	2009
P7A5	1104	PA7001/0001	2009	PET6001	2014	PN72	2034	PS8917	564	PTC509	564	QA-15	2009
P7B5	1104	PA7001/501	017	PET6002	2009	PN107	2010	PS10019B	562	PTC736	038	QA-16	2009
P7C5	1104	PA7001/503	007	PET8000	2009	PN108	2016	PS10022B	563	PU6C22	1104	QA-18	2035
P7D5	1104	PA7615	1104	PET8001	2009	PN109	2010	PS10024B	564	PV-8	1104	QA-19	2009
P8/2H	1104	PA7709	017	PET8002	2009	PN204	1104	PS10063	562	PV8	1104	QA-20	2035
P20	1104	PA7709C	017	PET8003	2009	PN350	2041	PS10066	563	PY-5	1104	QB01-15ZB	564
P32H	1104	PA7741	007	PET8004	2009	PN918	2038	PS-10068	564	Q-00169	2035	QD-G1N60PXT	1123
P62H	1104	PA7741C	007	PET9002	2009	PN929	2013	PS10068	564	Q-00169A	2035	QD-S1S953XA	1102
P82H	1104	PA8261	564	PF-AR15	2041	PN930	2013	PS30802	1122	Q-00169B	2035	QD-SS1555XT	1102
P100	1104	PA8645	1104	PH9D5	1114	PN930(NTLB)	2013	PS209800	2009	Q-00169C	2035	QD-SS1885XT	1104
P100A	1104	PA9006	2009	PH9DS22	1104	PN2369	2030	PT-3	1104	Q-00184R	2035	QD-SSR1KX4P	1104
P100B	1104	PA9160	1104	PH25C22	1104	PN2369A	2030	PT4-2268-01B	1122	Q-00269	2009	QDSSR3AMBE	1104
P100D	1104	PA9267	561	PH25C22/1	1104	PN2904	2023	PT4-2268-011	1122	Q-00269A	2009	QD-SSS53XXA	1102
P100G	1104	PA10556	1104	PH25C22/21	1104	PO93	1123	PT4-2287-01	1102	Q-00269B	2009	QD-SV06CXXB	1104
P100J	1104	PA10887	1104	PH-108	1104	PP3000	2041	PT4-2311-011	1122	Q-00269C	2009	QD-ZMZ409BE	562
P150A	1104	PBC183	2016	PH109	1114	PP3003	2041	PT4-7158	2009	Q-00284R	2013	QD-ZRD9EXAA	562
P150B	1104	PBE3322	1123	PH204	1104	PP3006	2041	PT4-7158-01A	2009	Q-00369	2009	QG0254	2009
P150D	1104	PC02P1/2	1104	PH208	1104	PR617	563	PT4-7158-02A	2009	Q-00369A	2009	QKT-0033XBE	2036
P150G	1104	PC0211/2	1104	PH404	1104	PR-620	564	PT4-7158-012	2009	Q-00369B	2009	QKT0033XBE	2036
P150J	1104	PC0.2P11/2	1104	PH1021	1104	PR620	564	PT4-7158-013	2009	Q-00369C	2009	QOV60529	2009
P200	1104	PC4004	1104	PL-150-001-9-005	1123	PRT-101	2009	PT4-7158-021	2009	Q-00384R	2010	QOV60530	2009
P400	1104	PD101	1104	PL-150-006-9-001	1123	PRT-104	2009	PT4-7158-022	2009	Q-00484R	2009	QP001200A	2041
P480A0028	2009	PD102	1104	PL-150-040-9-002	1102	PRT-104-1	2009	PT4-7158-023	2009	Q-00569	2009	QP-8	2041
P480A0029	2009	PD103	1104	PL-151-030-9-001	1102	PRT-104-2	2009	PT5	1104	Q-00569A	2009	QP8	2041
P580	1114	PD104	1104	PL-151-030-9-005	1104	PRT-104-3	2009	PT-5B	1104	Q-00569B	2009	QP-11	2041
P600	1104	PD105	1104	PL-151-032-9-004	1102	PS005	1104	PT5B	1104	Q-00584	2011	QP-12	2041
P800	1114	PD106	1104	PL-151-035-9-001	1102	PS010	1104	PT9C22/1	1114	Q-00584R	2010	Q-RF-2	2009
P1000	1114	PD107	1104	PL-151-040-9-001	1102	PS015	1104	PT-505	1104	Q-00669	2009	QRF-3	2035
P1087	2035	PD107A	1104	PL-151-040-9-002	1102	PS020	1104	PT505	1104	Q-00669A	2009	QRF3	2035
P1172	1102	PD108	1104	PL-151-040-9-003	1104	PS-025	1104	PT-510	1104	Q-00669B	2009	QRG-3	2035
P1172-1	1102	PD110	1104	PL-151-045-9-001	1104	PS025	1104	PT510	1104	Q-00669C	2009	QS054	2009
P1901-50	2009	PD111	1104	PL-151-045-9-002	1102	PS030	1104	PT-515	1104	Q-00684R	2009	QS-0254	2031
P2271	2041	PD114	1114	PL-151-045-9-004	1104	PS-035	1104	PT-520	1104	Q-0115C	2009	QS0254	2031
P3139	2041	PD115	1114	PL-152-044-9-001	562	PS035	1104	PT520	1104	Q-01115C	2011	Q-SE1001	2009
P4326	1102	PD116	1114	PL-152-047-9-001	561	PS-040	1104	PT-525	1104	Q-02115C	2009	QSE1001	2009
P5034	2041	PD122	1104	PL-152-051-9-001	562	PS040	1104	PT525	1104	Q-03115C	2009	QT-C0372XAT	2013
P5100	1114	PD125	1104	PL-152-052-9-002	561	PS050	1104	PT-530	1104	Q-04115C	2009	QT-C0710XAE	2014
P5149	2041	PD129	1104	PL-172-013-9001	2020	PS-060	1104	PT-530A	2007	Q-05115C	2009	QT-C0710XBE	2014
P5152	2009	PD130	1104	PL-172-024-9-003	2020	PS060	1104	PT-540	1104	Q-06115C	2009	QT-C0735XBT	2010
P5153	2009	PD131	1104	PL-176-026-9-001	2011	PS63A205	1122	PT540	1104	Q-07115C	2009	QT-C0828XDN	2013
P-6006	1102	PD132	1104	PL-176-029-9-001	2009	PS105	1104	PT-550	1104	Q0V60529	2009	QT-C0829XBN	2009
P7394	1102	PD133	1104	PL-176-037-9-001	2011	PS110	1104	PT550	1104	Q0V60530	2009	QT-C0839XDA	2013
P7776	1104	PD134	1104	PL-176-042-9-001	2013	PS-120	1104	PT-560	1104	Q0V60537	2009	QT-C131BXDN	2010
P-8393	2009	PD135	1104	PL-176-042-9-002	2009	PS120	1104	PT560	1104	Q0V60538	2009	QT-C1307XZA	2020
P8393	2009	PD137	1102	PL-176-042-9-004	2009	PS125	1104	PT580	1114	Q1/6515	2011	QT-C1687XAN	2009
P8394	2009	PD154	1104	PL-176-042-9-006	2009	PS130	1104	PT627	2009	Q-1A	2007	QT-CBC546AA	2009
P9459	1104	PD155	1104	PL-176-047-9-002	2014	PS135	1104	PT703	2016	Q1B	1104	QT-CQ460CBB	2013
P9623	2009	PD910	1104	PL-176-049-9-002	2011	PS140	1104	PT720	2016	Q1H	1104	QT-K0023AAS	2036
P-10115	1104	PD913	1114	PL-182-009-9-001	2035	PS150	1104	PT851	2009	Q-2	2001	QT-K0033XBE	2036
P10115	1104	PD914	1114	PL-182-014-9-002	2009	PS160	1104	PT886	2012	Q2	2038	QVD1KF114	1123
P10115A	1114	PD915	1114	PL1021	2013	PS405	1104	PT887	2012	Q2/6515	2011	QZ6.2T5	561
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P-10954-1	2041	PD6013A	562	PL1026	2031	PS430	1104	PT1559	2009	Q4	2038	QZ15T5	564
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P21309	1101	PD6018	564	PL1052	2009	PS460	1104	PT1837	2009	Q6/2	1104	R080	1114
P21316	1104	PD-6018A	564	PL1053	2016	PS603	1104	PT1941	2041	Q6/6515	2011	R1	1104
P21317	1104	PD6018A	564	PL1054	2009	PS604	1104	PT2523	2012	Q8/2	1104	R1A	1104
P21344	562	PD6050	561	PL1055	2016	PS605	1104	PT2524	2012	Q-9	2001	R1B	1104
P21443	1104	PD6054	562	PL1061	2013	PS609	1104	PT2525	2012	Q32	1104	R1K	1104
P38103/507-10	564	PD6057	563	PL1062	2013	PS610	1104	PT2760	2016	Q-35	2009	R-1S188	1123
P50200-11	2041	PD-6059	564	PL1063	2010	PS611	1104	PT2896	2009	Q49	1123	R-2-02	1104
P64447	2009	PD6059	564	PL1064	2013	PS615	1104	PT3141	2009	Q50	1123	R-2SC535	2011
P633567	2009	PE-401	1104	PL1065	2010	PS616	1104	PT3141A	2009	Q51	1123	R-2SC537	2009
PA-069	1104	PE401	1104	PL1066	2031	PS617	1104	PT3141B	2009	Q52	1104	R-2SC772	2011
PA069	1104	PE401N	1104	PL1067	2031	PS621	1104	PT3151A	2009	Q53	1104	R-2SC858	2011
PA070	1104	PE402	1104	PL1081	2016	PS622	1104	PT3151B	2009	Q54	1104	R3/2H	1104
PA071	1104	PE403	1104	PL1082	2016	PS623	1104	PT3151C	2009	Q55	1104	R4A	1104
PA-3	1104	PE404	1104	PL1084	2012	PS627	1104	PT3500	2009	Q56	1104	R5	1114
PA3	1104	PE405	1104	PL1085	2012	PS628	1104	PT3501	2009	Q57	1104	R5B	1114
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PA277	702	PE408	1114	PL1092	2035	PS632	1104	PT4816	2011	Q59	1104	R6	1114
PA300	1104	PE410	1114	PL1093	2035	PS633	1104	PT4830	2011	Q60	1104	R6/2H	1104
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PA315	1104	PE510	1114	PL1104	2022	PS-801	1740	PTC108	2001	Q5053C	2009	R10DC	1104
PA315A	1104	PE3001	2009	PL1111	2011	PS1140	1114	PTC119	2041	Q5073D	2009	R12	2001
PA-320	1104	PE3015	2016	PL1112	2011	PS1325	561	PTC126	2038	Q5073E	2009	R14	2001
PA320	1104	PE3100	2009	PL1113	2011	PS2207	1104	PTC136	2009	Q5073F	2009	R-33	2001

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R34-6016-58	2009	R7682	1104	RC-1700	2041	RE47	1123	RFJ71122	1104	R-S1347	1104	RS-3277	2007
R41	2001	R7743	1123	RC1700	2041	RE-48	1101	RFJ71480	562	RS-1347	1104	RS-3278	2007
R60-1007	1123	R7887	2009	RCA-1000	2042	RE48	1101	RFJ72360	1104	RS1348	563	RS-3279	2007
R-62	2001	R7892	1123	RCC-7022	1104	RE-49	1104	RFJ72787	1104	RS1428	1102	RS3281	2007
R-63	2001	R7893	1123	RCP111A	2012	RE49	1104	RFJ711122	1104	RS1513	2001	RS3287	2007
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R117	2001	R7953	2009	RCP111C	2012	RE50	1104	RFL-30596	1104	RS1531	2001	RS3306	2001
R118	2011	R7954	1104	RCP111D	2012	RE-51	1114	RFL30596	1104	RS1532	2001	RS-3309	2007
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R-135	2001	R8066	2009	RCP115A	2012	RE-67	2031	RFV60500	1104	RS-1538	2001	RS-3868	2007
R135	2001	R8067	2009	RCP115B	2012	RE67	2010	RG100B	1104	RS1538	2001	RS3892	2007
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R-136	2001	R8069	2009	RCP117B	2012	RE73	2012	RG100G	1104	RS-1545	2001	RS-3907	2007
R136	2001	R8070	2009	RCS242	2041	RE86	1123	RG100J	1104	RS-1547	2001	RS-3913	2007
R-137	2001	R8115	2009	RD-3	1104	RE-94	1122	RG1004	1104	RS1547	2001	RS-3914	2007
R137	2001	R8116	2009	RD3A-1B4	1104	RE94	1122	RG1127	1104	RS-1550	2007	RS3914	2007
R-154B	1104	R8117	2009	RD6AN	561	RE-109	561	RH120	2009	RS-1553	2001	RS-3915	2007
R154B	1104	R8118	2009	RD-6L	561	RE109	561	RH3761	2038	RS1553	2001	RS3915	2007
R-163	2007	R8119	2009	RD6.2E	561	RE-114	562	RH-DX0003SEZZ	1104	R-S-1720	1104	RS-3926	2004
R163	2007	R8120	2009	RD6.2F	561	RE114	562	RH-DX0003TAZZ	1104	RS1720	1104	RS-3929	2007
R170	1114	R8219	1123	RD6.2FA	561	RE-118	563	RH-DX0008CEZZ	1104	RS1749	1104	RS-5104	2007
R-186	2007	R8223	2009	RD6.2FB	561	RE118	563	RH-DX0025CEZZ	1104	RS1805	1104	RS5104	2007
R186	2007	R8224	2009	RD-7A	562	RE-121	564	RH-DX0026AGZZ	1104	RS1811	1123	RS-5105	2007
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R202	2001	R8243	2009	RD9	562	RE-168	1067	RHDX0033TAZZ	1102	RS1832	1104	RS-5106	2007
R-203	2001	R8244	2009	RD-9A	562	RE168	1067	RH-DX0039TAZZ	1104	RS-2001	2001	RS5302	2007
R203	2001	R8257	1123	RD9A	562	RE-171	1067	RH-DX0041CEZZ	1104	RS-2002	2002	RS5303	2007
R204B	1104	R8259	2009	RD9A(10)	562	RE171	1067	RH-DX0042CEZZ	1104	RS-2003	2003	RS-5401	2007
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R227	2007	R8261	2009	RD9AL	562	RE-321-IC	1725	RHDX0043TAZZ	1104	RS-2005	2005	RS5403	2007
R-244	2007	R8305	2009	RD9AM	562	RE321-IC	1725	RH-DX0046CEZZ	1102	RS-2006	2006	RS-5504	2007
R244	2007	R8312	2009	RD9A-N	562	RE-322-IC	702	RH-DX0048CEZZ	1102	RS-2007	2007	RS5504	2007
R258	2007	R8314	1102	RD9AN	562	RE322-IC	702	RH-DX0054CEZZ	1102	RS-2008	2008	RS-5511	2007
R340	2009	R8364	563	RD-9L	562	RE504	1104	RH-DX0055TAZZ	1104	RS-2009	2009	RS5511	2007
R-424	2007	R8470	1104	RD-9.1E	562	RE2001	2016	RH-DX0056CEZZ	1104	RS-2010	2010	RS-5540	2007
R-425	2007	R8473	1104	RD9.1E	562	RE2002	2016	RH-DX0059TAZZ	1104	RS-2011	2011	RS5540	2007
R-488	2007	R8475	1123	RD9.1EA	562	RE3001	2038	RH-DX0063CEZZ	1104	RS-2012	2012	RS5743.3	2007
R488	2007	R8528	2009	RD9.1EB	562	RE3002	2038	RH-DX0064CEZZ	1104	RS-2013	2013	RS-5851	2009
R-506	2007	R8529	2011	RD9.1F	562	RE4001	2013	RH-DX0065CEZZ	1114	RS-2014	2014	RS5851	2009
R506	2007	R8530	2009	RD9.1FA	562	REJ70643	1104	RH-DX0065CZZ	1114	RS-2015	2015	RS-5853	2009
R582	2009	R8543	2009	RD9.1FB	562	REJ70931	1104	RH-DX0068TAZZ	1104	RS-2016	2016	RS5853	2009
R592	2001	R8551	2009	RD12	563	REJ71253	1102	RH-DX0072CEZZ	1104	RS-2017	2017	RS-5856	2009
R855-2	1104	R8552	2009	RD12E	563	RER-023	1102(2)	RH-DX0077CEZZ	1114	RS-2018	2018	RS5856	2009
R1035	1104	R8553	2009	RD12EA	563	RET20	1104	RH-DX0081CEZZ	1104	RS-2019	2019	RS-5857	2009
R1106	1123	R8554	2009	RD12F	563	RF1811	1123	RH-DX0083CEZZ	1102	RS-2020	2020	RS5857	2009
R1107	1123	R8555	2009	RD12FA	563	RF-3160	1104	RH-DY0003SEZZ	1104	RS-2021	2021	RS-6344	1104
R1109	1123	R8556	2009	RD12FB	563	RF3160	1104	RH-EX0015CEZZ	563	RS-2022	2022	RS6344	1104
R1329	1104	R8557	2009	RD13AL	563	RF3472	1104	RH-EX0019TAZZ	563	RS-2023	2023	RS-6461	1104
R-1348	563	R8620	2009	RD13AM	563	RF-6235-1	1104	RH-EX0024CEZZ	561	RS-2024	2024	RS6461	1104
R-1533	2001	R8646	2009	RD-13AN	563	RF26231-1	1104	RH-EX0038CEZZ	563	RS-2025	2025	RS-6471	1104
R1533	2001	R8647	2009	RD13E	563	RF26234-1	1104	RH-EX0048CEZZ	561	RS-2026	2026	RS6471	1104
R1667	1123	R8648	2009	RD13EA	563	RF26235-1	1104	RH-EX0062CEZZ	1104	RS-2027	2027	RS6705	1104
R1889	1123	R8658	2009	RD13EB	563	RF26235-2	1104	RH-VX0004TAZZ	1102	RS-2028	2028	RS6824	2007
R2159	1104	R8721	1104	RD13K	563	RF26235-5	1104	RKZ12003	1122	RS-2029	2029	RS-7103	2009
R2164	1123	R8887	1123	RD-15E	564	RF29799P	1104	RKZ120101	1122	RS-2030	2030	RS7103	2009
R2252	1104	R8889	2009	RD15E	564	RF31903P	1104	RL005	1114	RS-2031	2031	RS-7105	2009
R2270-75497	2041	R8914	2009	RD15EA	564	RF-32101-8	1104	RL010	1114	RS-2032	2032	RS7105	2009
R2270-78399	2041	R8916	2009	RD15EB	564	RF32101-8	1104	RL020	1114	RS-2033	2033	RS7108	2009
R2334	1123	R8963	2009	RD15F	564	RF32101-9	1104	RL040	1114	RS-2034	2034	RS7111	2009
R2442	1104	R8964	2009	RD15FA	564	RF-32101R	1104	RL060	1114	RS-2035	2035	RS7114	2013
R2460-1	1104	R8965	2009	RD15FB	564	RF32101R	1104	RL31	1123	RS-2036	2036	RS7121	2009
R2460-4	1104	R8966	2009	RD15S	564	RF32426-7	1102(2)	RL32	1123	RS-2037	2037	RS-7124	2009
R2982	2041	R8968	2009	RD16A	564	RF32645	1104	RL32G	1123	RS-2038	2038	RS-7127	2030
R3273-P1	2009	R8970	1123	RD16AM	564	RF33550-1	1123	RL34	1123	RS-2039	2039	RS7127	2009
R3273-P2	2009	R9004	2009	RD-16H	564	RF33976	1104	RL34G	1123	RS-2040	2039	RS-7129	2009
R3283	2009	R9005	2009	RD16H	564	RF34383	1104	RL41	1123	RS-2041	2039	RS7129	2009
R3285	1104	R9006	2009	RD-16HA	564	RF34661	1102	RL41G	1123	RS-2042	2042	RS7132	2009
R3293(GE)	2009	R9025	2009	RD-91	562	RF34720	1104	RL42	1123	RS-2043	2043	RS7133	2009
R3410-P1	1122	R9071	2009	RD-91E	562	RF35123	1123	RL52	1123	RS2356	2001	RS7136	2009
R3576-1	2010	R9382	2012	RD-96	562	RF60034	1123	RL232G	1123	RS-2359	2001	RS7143	2011
R3676-1	2010	R9383	2012	RD250	1104	RFA70597	1104	RL246	1123	RS2359	2001	RS7160	2009
R4057	2009	R9384	2009	RD1343	1102	RFA70600	1104	RL252	1123	RS-2360	2001	RS7173	2013
R4369	2041	R9385	2009	RD-3472	1104	RFC61197	1104	RL709T	017	RS2360	2001	RS-7201	2011
R5096	1123	R9470	1104	RD3472	1104	RFJ6134	1104	RLF1G	1104	RS-2364	2001	RS-7212	2011
R5522	1123	R9483	2009	RD9037	1104	RFJ-30704	1104	RP-9A	562	RS2364	2001	RS7219	1123
R5970	1104	R9590	1123	RD-26235-1	1104	RFJ30704	1104	RQ-409S	1104	RS-2365	2001	RS7222	2011
R5971	1104	R9597	1104	RD26235-1	1104	RFJ-31218	1104	RR7504	2009	RS2365	2001	RS7223	2009
R6048	1104	R9600	2013	RD-29799P	1104	RFJ31218	1104	RR8068	2009	RS-2366	2001	RS7224	2009
R6110	1104	R22707-8399	2041	RD29799P	1104	RFJ-31362	1104	RR8914	2009	RS2366	2001	RS7226	2009
R6422	1104	R-106379	1104	RD-31903P	1104	RFJ31362	1104	RS1FM-12	1104	RS-2373	2001	RS7232	2009
R-7026	1102	R106379	1104	RD31903P	1104	RFJ-31363	1104	RS10	1104	RS-2374	2001	RS7233	2013
R-7027	1102	R-113321	1104	RE-1	2007	RFJ31363	1104	RS-104	2001	RS-2375	2001	RS7234	2009
R7028	1123	R113321	1104	RE1	2007	RFJ-33292	1104	RS-107	2009	RS2375	2001	RS7235	2009
R7029	1123	R-113392	1104	RE2	2001	RFJ33292	1104	RS-108	2009	RS-2683	2007	RS7236	2009
R-7051	1123	R113392	1104	RE-3	2007	RFJ60033	1101	RS128	2009	RS-2684	2007	RS7238	2009
R-7092	1102	R14010658	1122	RE3	1104	RFJ60172	1123	RS136	2009	RS-2685	2007	RS7241	2009
R-7093	561	R227075497	2041	RE-5	2001	RFJ60173	1104	RS220AF	1104	RS-2686	2007	RS7242	2009
R-7096	1104	R227077499	2041	RE5	2001	RFJ60174	1104	RS230AF	1104	RS-2687	2007	RS7405	2009
R-7097	562	RA-1	1104	RE-9	2011	RFJ60286	1104	RS-253C	1102	RS-2688	2007	RS7406	2009
R-7103	563	RA1A	1102	RE9	2038	RFJ-60366	1104	RS-253S	1102	RS-2690	2007	RS7407	2009
R7162	1104	RA-1B	1104	RE-10	2030	RFJ60366	1104	RS-267S	1102	RS2690	2007	RS7408	2009
R7163	2009	RA1B	1104	RE10	2038	RFJ60614	1123	RS-272US	1102	RS-2691	2007	RS-7409	2009
R7165	2009	RA1Y	1104	RE12	2009	RFJ60869	1104	RS-280S	1102	RS2691	2007	RS7409	2009
R7248	1104	RA1ZC	1102	RE13	2009	RFJ70147	1104	RS-805US	2013	RS-2692	2007	RS7410	2009
R7249	2009	RA-2	1104	RE-19	2041	RFJ70432	1104	RS1049	2009	RS2692	2007	RS-7411	2009
R7271	1104	RA26	1104	RE19	2041	RFJ70487	1104	RS1059	2009	RS-2694	2007	RS7411	2009
R7343	2009	RA132BA	1104	RE-26	2032	RFJ70703	1104	RS1234	1104	RS-2695	2007	RS-7412	2009
R7359	2009	RB6-PS-801	1740	RE26	2032	RFJ70931	1104	R-S1264	1104	RS-2696	2007	RS7412	2009
R7360	2009	RC080	1114	RE45	2036	RFJ70970	1104	RS-1264	1104	RS2696	2007	RS-7413	2009
R7361	2009	RC709T	017	RE46	2035	RFJ70974	1104	RS1264	1104	RS2801	1123	RS7413	2009

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
RS7415	2009	RT-218	1102	RT6921MHF25	2009	RVDVD1211L	1104	S1SD-1HF	1104	S75	1104	S750	1114
RS7421	2009	RT218	1102	RT6989	2009	RVDVD1212L	1102	S1SD-1X	1104	S77	1104	S750C	1114
RS-7504	2009	RT-240	562	RT7322	2009	RVDVD1213	1102	S1SM-150-01	1104	S79	1104	S-810	1104
RS7504	2009	RT-243	563	RT7325	2009	RVTCS1381	2009	S1SM-150-02	1104	S81	1104	S1010	2011
RS7510	2009	RT-245	564	RT7326	2009	RVTCS1383	2009	S1SW-05-02	1104	S82	1104	S1016	2009
RS-7511	2009	RT-308	2016	RT7327	2009	RVTMK10-2	2035	S-1.5	1104	S83	1104	S-1019	2011
RS7513	2009	RT-313	2038	RT7330	1123	RVTMK10-E	2035	S1.5	1104	S84	1104	S-1019(UHF)	2011
RS7513-15	2009	RT476	2009	RT7511	2009	RVTS22410	2009	S-1.5-0	1104	S85	1104	S1041	2011
RS7514	2009	RT482	2012	RT7514	2009	RX090	562	S1.5-01	1104	S86	1104	S1041-16GN	2011
RS7515	2009	RT483	2012	RT7515	2009	RYN121105	2009	S-2	1104	S88C-1-3P	2007	S1060	2030
RS7516	2009	RT484	2012	RT7517	2009	RYN121105-3	2009	S2A06	1104	S91	1104	S-1061	2009
RS7517	2009	RT697M	2009	RT7518	2009	RYN121105-4	2009	S2A10	1104	S91-A	1104	S1061	2009
RS7517-19	2009	RT-929-H	2009	RT7528	2009	RZ6.2	561	S2A30	1104	S91-H	1104	S-1065	2009
RS7518	2009	RT-929H	2009	RT7538	1123	RZ9.1	562	S2AR1	1104	S92	1104	S1065	2009
RS7519	2009	RT929H	2009	RT7539	561	RZ12	563	S2AR2	1104	S92-A	1104	S-1066	2009
RS7521	2009	RT-930H	2009	RT7557	2009	RZ13	563	S2C30	1104	S92-H	1104	S1066	2009
RS7523	2011	RT1008	1123	RT7634	1104	RZ15	564	S2C40	1104	S93	1104	S-1068	2009
RS7525	2009	RT1106	1123	RT7636	1123	RZ15A	564	S2C40A	1104	S93A	1104	S1068	2009
RS7526	2009	RT1108	1123	RT7638	2009	RZ-15AB	564	S2E20	1104	S93H	1104	S1069	2009
RS7527	2009	RT1116	2012	RT7689	1123	RZZ6.2	561	S2E60	1104	S93SE133	2041	S1074	2009
RS7528	2009	RT1184	1123	RT7703	2011	RZZ9.1	562	S2E60-1	1104	S93SE165	2041	S1074(R)	2009
RS7529	2009	RT1595	1104	RT7704	2011	RZZ12	563	S2E100	1114	S93.24.401	1123	S1074R	2009
RS7530	2009	RT1669	1102	RT7845	2009	RZZ13	563	S3A06	1104	S93.24.601	1123	S1080	2009
RS7542	2009	RT1689	1104	RT7849	1104	RZZ156	564	S3AR1	1104	S93.24.604	1123	S1080(TRANSISTOR)	
RS7543	2009	RT1840	1104	RT7850	1104	S0002	2010	S3G4	1114	S94	1104		2009
RS7544	2009	RT1893	2012	RT7851	1123	S0015	2009	S-3MX	1104	S95	1104	S1090	2009
RS7555	2009	RT-2016	1123	RT7943	2009	S0022	2009	S3MX	1104	S100	1114	S1122	2011
RS-7606	2009	RT2016	2009	RT7946	1102	S0024	2010	S4A06	1104	S101	1104	S1126	2011
RS7606	2009	RT2061(G.E.)	1102	RT8195	2009	S0025	2009	S4AO6	1104	S102	1104	S-1128	2009
RS-7607	2009	RT2332	2009	RT8197	2009	S001466	2009	S4AR1	1104	S-102V	1104	S1128	2009
RS7607	2009	RT2334	1123	RT8198	2009	S04	1102	S4AR2	1104	S103	1104	S-1143	2009
RS-7609	2009	RT2452	1123	RT8199	1104	S04-1	1102	S4AR30	1104	S104	1104	S1143	2009
RS7609	2009	RT-2669	1104	RT8200	563	S04A-1	1102	S4C	1104	S105	1104	S1201F	1114
RS-7610	2009	RT2694	1123	RT8201	2009	S04B-1	1102	S4FN300	1104	S106	1104	S-1221	2009
RS7610	2009	RT2914	2009	RT8231	1104	S-05	1104	S5AR1	1104	S107	1104	S1221	2009
RS-7611	2009	RT3063	2009	RT8330	2030	S05	1104	S5AR2	1104	S108	1104	S-1221A	2009
RS7611	2009	RT3064	2009	RT8331	2035	S-05/01	1114	S-5S	1104	S129	1104	S1221A	2009
RS-7612	2009	RT3072	1123	RT8332	2009	S-05-005	1104	S5S	1104(2)	S133-1	2009	S1226	2009
RS7612	2009	RT3099	1123	RT8333	2011	S-05-01	1104	S-5SR	1104	S169N	2009	S1240	2009
RS-7613	2009	RT3228	2009	RT8339	562	S010G	1114	S5SR	1104	S180	1102	S1241	2009
RS7613	2009	RT3233	1123	RT8340	1104	S028	2001	S6AR1	1104	S191G	1104	S1241N	2035
RS-7614	2009	RT3336	1123	RT8665	1114	S031A	2009	S6AR2	1104	S200	1104	S1242	2009
RS7614	2009	RT3443	1104	RT8667	2035	S037	2009	S7-8	1102	S201	1104	S1242N	2035
RS7620	2009	RT3469	1123	RT8668	2011	S-050	1104	S7AR1	1114	S202	1104	S1243	2009
RS7621	2009	RT3565	2009	RT8669	2011	S074-005-0001	1122	S8AR1	1114	S203	1104	S1243N	1104
RS-7622	2009	RT3567	2009	RT8671	1123	S074-007-0001	1102	S8AR2	1114	S204	1104	S-1245	2009
RS7622	2009	RT3585	1104	RT8839	1104	S082A	1101	S9AR1	1114	S205	1104	S1245	2009
RS-7623	2009	RT3671	564	RT8840	1104	S-0501	1104	S-10	1104	S206	1104	S1272	2009
RS7623	2009	RT3671A	564	RT8841	1104	S0501	1104	S10	1104	S208	1114	S1307	2009
RS7624	2009	RT-3858	1104	RT61012	1123	S0702	562	S10A	1104	S210	1114	S1308	2011
RS7625	2009	RT3858	1104	RT69221	2009	S0704	2009	S10AR1	1114	S217	1104	S1309	2009
RS7626	2009	RT3981	1104	RTN1001	702	S022010	2009	S10AR2	1114	S218	1104	S-1313	2011
RS7627	2009	RT4050	1104	RV06	1104	S022011	2009	S10B01-02	1104	S219	1104	S1331	2009
RS7628	2009	RT4069	1104	RV06/7825B	1104	S024428	2009	S11	1102	S220	1104	S1331N	2009
RS7634	2009	RT-4232	1104	RV6.2	561	S024987	2009	S12-1-A-3P	2009	S221	1104	S-1331W	2009
RS7635	2009	RT4232	1104	RV1017	1102	S025232	2009	S13	1104	S222	1104	S1331W	2009
RS7636	2009	RT4293	1123	RV1068	2013	S025289	2009	S14	1104	S223	1104	S-1363	2009
RS7637	2009	RT4644	1123	RV1226	1102	S	562	S15	1104	S224	1104	S1363	2009
RS7638	2009	RT4760	2009	RV1424	1104	S1-1	1104	S-15-10	1104	S230	1104	S-1364	2009
RS7639	2009	RT4761	2009	RV1471	2009	S1-B01-02	1104	S16	1104	S232	1104	S1364	2009
RS7640	2009	RT4764	1104	RV1474	2009	S1-RECT-35	1102	S16A	1104	S233	1104	S1369	2009
RS7641	2009	RT5070	1104	RV1476	1104	S1-RECT-102	1104	S16B	1104	S234	1104	S1373	2009
RS7642	2009	RT5151	2030	RV1478	1104	S1A06	1104	S-17	1104	S235	1104	S1374	2009
RS7643	2009	RT5152	2030	RV1479	1123	S1A060	1104	S17	1104	S238	1104	S-1403	2009
RS7814	2009	RT5202	2009	RV2071	1102	S1A	1104	S-17A	1104	S239	1104	S1403	2009
RS7916	2035	RT5203	2012	RV2072	1104	S1A3	561	S17A	1104	S240	1104	S1405	2009
RS8430	1104	RT5206	2009	RV2213	562	S1A60	1104	S18	1104	S241	1104	S1419	2009
RS8442	2009	RT5207	2009	RV2220	1104	S1AR1	1104	S18A	1104	S243	1104	S1420	2009
RS8503	2009	RT5213	1123	RV2249	2009	S1AR2	1104	S18B	1104	S250	1104	S1428	1102
RS9510	2011	RT5214	1123	RV2250	1104	S1B01	1104	S19	1104	S251	1104	S1429-3	2009
RS9511	2011	RT5216	1104	RV-2289	1104	S1B01-01	1104	S19A	1104	S252	1104	S1432	2009
RS9512	2011	RT5217	1104	RV2289	1104	S1B-01-02	1104	S20	1114	S253	1104	S1443	2009
RS15048	2009	RT5385	1104	RV2327	1104	S1B01-02	1104	S20ND400	1104	S254	1104	S1453	2009
RS86057332	2009	RT5464	2011	RVD08C22/1A	1104	S1B01-06	1104	S20NH400	1104	S255	1104	S1475	2009
RT-100	2009	RT5465	2011	RVD1K110	1123	S1B01-0226	1104	S21	1104	S256	1104	S1476	2009
RT100	2009	RT5472	1104	RVD1N34A	1123	S1B02	1104	S22	1104	S257	1114	S1477	2032
RT-102	2009	RT5551	2009	RVD2-1K110	1123	S1B02-0	1104(2)	S22A	1104	S258	1114	S1487	2009
RT-104	2016	RT5554	1102	RVD2DP	1104	S1B02-C	1104	S23	1104	S260	1114	S1502	2009
RT-107	2016	RT5793	561	RVD2DP22/18	1104	S1B02-CR	1104(2)	S23A	1104	S-262	1104	S1510	2009
RT-108	2038	RT5908	1123	RVD2DP221P	1104	S1B02-CR1	1102(2)	S24	1114	S262	1104	S-1512	2009
RT-110	2008	RT5909	1102	RVD2P22/1B	1104	S1B0101CR	1104	S26	1104	S-305	2041	S1512	2009
RT-111	2012	RT5911	1104	RVD4B265J2	1104	S1B0102	1104	S28	1114	S305	2041	S1526	2009
RT-112	2038	RT5939	1123	RVD10D1	1104	S1B0201CR	1104	S30	1104	S-305-PD	2041	S1527	2009
RT112	2011	RT6119	1123	RVD10DC1	1104	S1B-0306	1114	S31	1104	S-305A	2041	S1529	2009
RT-113	2038	RT6179	1123	RVD10DC1R	1104	S1B	1104	S32	1104	S305A	2041	S1530	2009
RT114	2009	RT6180	1123	RVD10E1	1104	S1B1	1104	S33	1104	S305D	2041	S-1533	2009
RT-119	2001	RT6181	1123	RVD10E11F	1104	S1BD1-02	1104	S34	1104	S-315	1104	S1533	2009
RT-126	2034	RT6182	1123	RVDCD0033	561	S1C	1114	S35	1104	S-320F	1123	S-1559	2009
RT-131	2041	RT6183	1123	RVDDS-410	1104	S1CN1	1104	S36	1104	S353	2041	S1559	2009
RT-154	2041	RT6184	1123	RVDEQA0106S	561	S1D	1114	S40	1104	S-356	2041	S1568	2009
RT-159	2012	RT6189	1123	RVDKB162C5	1104	S1D50B851-A	1102	S40A	1104	S356	2041	S1570	2009
RT159	2012	RT6204	2011	RVDKB265J2	1102	S1D51C052-19	1104	S43	1104	S428	1104	S1600	1104
RT-175	2036	RT6322	1104	RVDMZ-206	561	S1D51C169-1	1104	S44	1104	S431	1104	S1619	2009
RT175	2035	RT6332	1104	RVDMZ209	562	S1L200	1104	S46	1104	S-500	1114	S1620	2009
RT-176	2035	RT6600MHF25	2009	RVDR5R6EB	561	S1R12B	563	S47	1104	S-500B	1104	S1629	2009
RT176	2035	RT6601	2011	RVDRD5R6EB	561	S1R13B	563	S48	1104	S-500C	1104	S1685	2041
RT-210	1114	RT6602	2011	RVDRD11AN	562	S1R20	1114	S49	1104	S502	1102	S1691	2041
RT210	1114	RT6605	1104	RVDSD-1	1104	S1R-80	1104	S61	1114	S502A	1102	S1692	2041
RT-212	1104	RT6619	1123	RVDSD-1U	1104	S1R80	1114	S62	1114	S502B	1102	S1697	2009
RT-213	1104	RT6729	1104	RVDSD-1Y	1104	S1RC20	1104(2)	S63	1114	S506	1102	S1761	2009
RT213	1104	RT6732	2011	RVDSR3AM2N	1104	S1RC20R	1104	S65-4-A-3P	2001	S506A	1102	S1761A	2009
RT-214	1104	RT6733	2011	RVDVD1150L	1102	S1S2	1102	S70.01.704	2009	S506B	1102	S1761B	2009
RT214	1104	RT6787	2011	RVDVD1205M	1102	S1S11	1123	S72	1104	S509	1102	S1761C	2009
RT-215	1104	RT6791	1104	RVDVD1210L	1102	S1S20	1123	S73	1104	S509A	1102	S1764	2009
RT215	1104	RT6921	2009	RVDVD1210M	1102	S1SD-1	1104	S74-3-A-3P	2007	S509B	1102	S1765	2009

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S1766	2009	SA2B	1104	SC108B	2009	SD-1CUF	1104	SD94S	1104	SE5-0367	2009	SF195C	2016
S1768	2009	SA2H	1114	SC109A	2009	SD1CUF	1104	SD-95	1104	SE5-0456	1122	SF195D	2015
S1770	2009	SA2Z	1114	SC-110	1104	SD1DM-4	1104	SD95	1104	SE5-0567	2009	SF196	2016
S1772	2009	SA3B	1104	SC110	1104	SD-1HF	1104	SD-95A	1104	SE5-0608	2009	SF197	2038
S1784	2009	SA-7	2001	SC148	2016	SD1HF	1104	SD95A	1104	SE5-0848	2009	SF294	2016
S1785	2009	SA7	2001	SC148A	2016	SD-1L	1104	SD96	1104	SE5-0854	2009	SF294B	2016
S1801-02	1104	SA310	2022	SC158	2034	SD1L	1104	SD96A	1104	SE5-0855	2009	SF295	2015
S1835	2009	SA311	2022	SC158A	2034	SD-1LA	1104	SD96S	1104	SE5-0887	2009	SF295C	2016
S1865	2041	SA312	2022	SC158VI	2034	SD1LA	1104	SD98	1114	SE5-0888	2009	SF295D	2015
S1871	2009	SA313	2022	SC159	2034	SD-1U	1104	SD98A	1114	SE5-0938-54	2009	SF310	2016
S1878	2031	SA314	2022	SC159A	2034	SD-1UF	1104	SD98S	1114	SE5-0966	1102	SF314	2016
S1891	2009	SA315	2022	SC258	2034	SD-1X	1104	SD100	1102	SE6	1104	SF334	2016
S1891A	2009	SA316	2022	SC258A	2034	SD1X	1104	SD-101	1104	SE30B26A	1104	SF334B	2016
S1891B	2009	SA354B	2001	SC258VI	2034	SD-1Y	1104	SD101	1104	SE46	1104	SF335	2016
S1897	2011	SA410	2022	SC259	2034	SD1Y	1104	SD102	1104	SE50	2013	SF335C	2016
S1905	2041	SA411	2022	SC259A	2034	SD1Z	1104	SD103	1104	SE-1001	2013	SF335D	2016
S1905A	2041	SA412	2022	SC305	1104	SD1ZHF	1104	SD104	1104	SE1001	2013	SF1001	2009
S1907	2041	SA413	2022	SC350	2009	SD2	1114	SD105	562	SE1001-1	2013	SF1713	2009
S1955	2009	SA414	2022	SC741T	007	SD2A	1104	SD-109	2009	SE1001-2	2013	SF1714	2009
S1993	2009	SA415	2022	SC785	2009	SD2B	1104	SD109	2009	SE-1002	2009	SF1726	2009
S2003-1	2041	SA416	2022	SC821	561	SD2C	1114	SD-110	1102	SE-1010	2011	SF1730	2009
S2020	2011	SA537	2022	SC821A	561	SD4	1104	SD110	1102	SE1010	2015	SFB6183	1104
S2034	2009	SA538	2021	SC823	561	SD-5	1102	SD-150	1123	SE-1331	2009	SFD43	1102
S2043	2009	SA539	2022	SC823A	561	SD5	1104	SD165	1102	SE1331	2009	SFD83	1102
S2044	2009	SA540	2021	SC825	561	SD-5(PHILCO)	1102	SD-201	1104	SE1730	1114	SFD107	1123
S2045	2009	SA821	561	SC825A	561	SD6	1104	SD201	1104	SE-2001	2009	SFD111	1123
S-2064-G	1122	SA821A	561	SC827	561	SD-6AUF	1114	SD202	1104	SE2001	2016	SFD112	1123
S2085	1123	SA823	561	SC827A	561	SD-7	1102	SD282A	1101	SE2020	2011	SFE145	2035
S2087G	1102	SA823A	561	SC829	561	SD7	1102(2)	SD-404	1101	SE2397	2011	SFR135	1104
S2090	2009	SA825	561	SC829A	561	SD-7(PHILCO)	1102(2)	SD-470	1104	SE2401	2009	SFR151	1104
S2121	2009	SA825A	561	SC-832	2009	SD7(RECT)	1114	SD470	1104	SE2402	2009	SFR152	1104
S2122	2009	SA827	561	SC832	2009	SD8	1114	SD500	1102	SE3001	2038	SFR153	1104
S2123	2009	SA827A	561	SC842	2009	SD-8(PHILCO)	562	SD500C	1104	SE3002	2038	SFR154	1104
S2124	2009	SA829	561	SC1001	2009	SD10	1104	SD501	1104	SE-3033	2041	SFR155	1104
S2131	2011	SA829A	561	SC1010	2009	SD-12	1123	SD600	1102	SE3033	2041	SFR156	1104
S2132	2011	SA-93792	1102	SC-1016	1122	SD12	1123	SD600C	1104	SE3035	2041	SFR164	1104
S2133	2011	SA-93794	562	SC1168G	2009	SD12(PHILCO)	1102	SD-630	1102	SE3036	2041	SFR251	1104
S2134	2011	SAW-1S1941	1104	SC1168H	2009	SD12B	1123	SD630	1102	SE3100	2038	SFR252	1104
S2171	2009	SAW-1S1944	1104	SC1229G	2009	SD12E	1123	SD-632	562	SE-3646	2009	SFR253	1104
S2172	2009	SAW-2SC372GR	2009	SC1414	1104	SD12M	1123	SD632	562	SE3646	2016	SFR254	1104
S2225	2009	SAW-2SC372Y	2009	SC1431	1104	SD-13	1104	SD632(10)	562	SE-4001	2009	SFR255	1104
S2241	2041	SAW-2SC945R	2009	SC1431(GE)	1102	SD13	1104	SD701-02	1102	SE4001	2013	SFR256	1104
S2392	2041	SB01	1104	SC1631	1104	SD-13(PHILCO)	1123	SD800	1114	SE-4002	2009	SFR258	1114
S2397	2009	SB01-02	1102	SC1631(GE)	1104	SD-14	1123	SD838	1101	SE4002	2009	SFR264	1104
S2403B	2041	SB-03	1104	SC4010	2009	SD14	1123	SD910	1114	SE-4010	2009	SFR266	1104
S2403C	2041	SB1-01-04	1104	SC-4044	2009	SD-15	562	SD910A	1114	SE4010	2009	SFR268	1114
S2471	2041	SB-1Z	1104	SC4044	2009	SD15	1123	SD910S	1114	SE4172	2013	SFT104	1123
S2581	2009	SB2C	1114	SC4116	1104	SD-16	1123	SD950	1104	SE5001	2016	SFT108	1123
S2582	2009	SB2CH	1114	SC4131-1	2009	SD16	1123	SD974	1102	SE5002	2016	SFT184	2001
S2590	2009	SB-3	1104	SC-4244	2009	SD-16A	1104	SD1074	2015	SE5003	2016	SFT223	2007
S2593	2009	SB-3-02	1104	SC5175G	007	SD-16D	1104	SD1101	1104	SE-5006	2009	SFT226	2007
S-2617	2011	SB-3F01	1104	SCA05	1104	SD-18	1104	SD1102	1104	SE5006	2016	SFT227	2007
S2617(UHF)	2011	SB-3N	1104	SCA1	1104	SD18	1104	SD1103	1104	SE5010	2016	SFT228	2007
S2635	2009	SB5	2041	SCA2	1104	SD21A	1123	SD1104	1104	SE5015	2016	SFT229	2007
S2636	2009	SB6	2041	SCA3	1104	SD23	1104	SDD421	2009	SE5020	2015	SFT237	2007
S2741	2041	SB7	2041	SCA4	1104	SD-27	562	SDD820	2011	SE5021	2015	SFT251	2007
S2935	2009	SB100	2003	SCA5	1104	SD-33	563	SDD821	2009	SE5022	2015	SFT252	2007
S2944	2009	SB200	2003	SCA6	1104	SD33	563	SDD3000	2009	SE5023	2015	SFT253	2007
S2984	2009	SB302	1104	SCA8	1114	SD-34	1102	SDH-2	1123	SE5024	2015	SFT259	2001
S2985	2009	SB-309A	1104	SCA10	1114	SD34	1123	SDH-2HC	1101	SE5025	2016	SFT260	2001
S2989	2009	SB-309C	1104	SCA1103	1104	SD-43	1102	SDR-25	1104	SE5029	2016	SFT261	2001
S2996	2009	SB315	1104	SCA3022	2038	SD43	1102	SDR25	1104	SE5030A	2009	SFT288	2007
S2997	2009	SB332	1104	SCA3238	2038	SD45	1104	SDS-113	1104	SE5030B	2009	SFT-298	2001
S2998	2009	SB333	1104	SCA3239	2038	SD-46	1123	SDS113	1104	SE5031	2016	SFT298	2001
S2999	2009	SB393	1104	SCA3240	2038	SD46	1123	SDT3766	2043	SE5032	2016	SFT-307	2007
S3004-1715	561	SB821	561	SCBR05F	1114	SD46(4)	1123	SDT3825	2040	SE5036	2038	SFT-319	2007
S3004-1716	1102	SB821A	561	SCBR1F	1114	SD-46-2	1123	SDT3827	2040	SE5040	2016	SFT713	2009
S3004-1718	561	SB823	561	SCBR6F	1114	SD46-2	1123	SDT3875	2040	SE5050	2015	SFT714	2009
S3016	1102	SB823A	561	SCD-T320	2041	SD46R	1123	SDT3877	2040	SE5051	2015	SFZ716	563
S-3016R	1102	SB825	561	SCD-T322	2009	SD-51	1101	SDT9201	2041	SE5052	2015	SF.T171	2007
S3016R	1102	SB825A	561	SCDT323	2009	SD51	1101	SDT9205	2041	SE5055	2016	SF.T172	2007
S3030G	1123	SB827	561	SCE1	1104	SD53	563	SDT9206	2041	SE5056	2016	SF.T173	2007
S3577G	1123	SB827A	561	SCE2	1104	SD-56	1123	SDT9210	2041	SE5151	2009	SF.T174	2007
S3603G	1123	SB829	561	SCE3	1104	SD56	1123	SDT9261	2041	SE-6001	2009	SF.T184	2001
S3639	2021	SB829A	561	SCE4	1104	SD-60	1123	SDT9301	2041	SE-6002	2009	SF.T187	2012
S3640	2021	SB-1000	1114	SCE6	1104	SD60	1123	SDT9302	2041	SE6010	2009	SF.T237	2007
S3771	2041	SB1000	1104	SCE8	1114	SD-80	1104	SDT9304	2041	SE7056	2008	SG-005	1104
S3776B	1123	SBR-260	1104	SCE10	1114	SD80	1104	SDT9305	2041	SE8001	2012	SG005	1104
S3885G	1123	SC05	1104	SCO5	1104	SD82	1101	SDT9307	2041	SE8040	2009	SG-105	1104
S4001	1104	SC05E	1104	SCO5E	1104	SD-82A	1101	SDT9308	2041	SE9002	2041	SG105	1104
S5089-A	1104	SC1	1104	SCP5E	1104	SD82A	1101	SD-Y	1104	SE9080	2041	SG-205	1104
S6005	1104	SC2	1104	SCT1	1114	SD82AG	1101	SE0001	2013	SELEN-44	1114	SG205	1104
S6801	2009	SC2C	1104	SCT2	1114	SD-91	1104	SE002(1)	2011	SELEN-70	1104	SG-305	1104
S9631	2009	SC4	1104	SCT3	1114	SD91	1104	SE0	1114	SELEN-701	1104	SG305	1104
S15649	2009	SC-6	1123	SCT4	1114	SD-91A	1104	SE-05	1104	SES632	2041	SG323	1104
S15657	2016	SC6	1104	SCT5	1114	SD91A	1104	SE05	1104	SES881	2041	SG505	1104
S15658	2016	SC8	1114	SD-02	1104	SD-91S	1104	SE-05-01	1104	SES3819	2035	SG709CT	017
S-21271	1123	SC8A	1114	SD05	1104	SD91S	1104	SE-05-02	1104	SF1	1114	SG723CD	1740
S21271	1123	SC10	1114	SD07	1104	SD-92	1104	SE-05-2	1104	SF1CN1	1114	SG723CN	1740
S21648	2011	SC10A	1114	SD040	1104	SD92	1104	SE-05A	1104	SF3CN1	1114	SG741CD	010
S22543	2009	SC12(DIODE)	1102	SD1	1104	SD-92A	1104	SE05B	1104	SF4	1114	SG741CN	010
S24591	2009	SC-16	1104	SD1-1	1104	SD92A	1104	SE05C	1114	SF4CN1	1114	SG741CT	007
S24596	2009	SC16	1104	SD-1-211B	1104	SD-92S	1104	SE05D	1104	SF5	1114	SG-805	1104
S29445	2009	SC20	1123	SD1-211B	1104	SD-93	1104	SE05S	1104	SF6	1114	SG805	1104
S32550	2009	SC23-3	1104	SD-1-211C	1104	SD93	1104	SE05SS	1104	SF115	2016	SG-1198	1104
S34540	2009	SC23-9	1104	SD1-211C	1104	SD-93A	1104	SE-05X	1104	SF115A	2016	SG1198	1104
S36999	2009	SC43	2007	SD1-Z	1104	SD93A	1104	SE-0566	2009	SF115B	2016	SG3182	1102
S40545	2011	SC44	2007	SD-1A	1104	SD93S	1104	SE0S-01	1104	SF115C	2016	SG3183	1102
S-88576	1101	SC46	2007	SD1A	1104	SD-94	1104	SE-0.5B	1104	SF115D	2013	SG3198	1102
S88576	1101	SC54	1123	SD-1AHF	1104	SD94	1104	SE-2	1104	SF115E	2013	SG3400	1104
S95202	2009	SC-65	2009	SD-1AUF	1102	SD-94A	1104	SE-5	1104	SF167	2016	SG3432	1102
S1977634	2041	SC65	2009	SD-1B	1104	SD94A	1104	SE5-0128	2009	SF173	2038	SG3516	1102
SA-2	1114	SC91	562	SD1C	1114	SD-94AB	1104	SE5-0247-C	1122	SF194	2016	SG3583	1102
SA2	1104	SC108	2016	SD-1C-4F	1104	SD94AB	1104	SE5-0253	2009	SF194B	2016	SG5028	1102
SA-2B	1104	SC108A	2016	SD-1C-UF	1104	SD94B	1104	SE5-0274	2009	SF195	2015	SG5392	1102

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SG5400	1102	SI-RECT-122	1104	SKA1080	2009	SLA539	1104	SM210	1104	SP1U-2	1102	SPS4143	2011
SG-9150	1102	SI-RECT-126	1104	SKA1117	2009	SLA540	1104	SM-217	2007	SP82	1101	SPS4168	2011
SG9150	1102	SI-RECT-136	1114	SKA1395	2009	SLA547	1104	SM220	1104	SP82A	1101	SPS4169	2009
SGC-7202	2009	SI-RECT-140	561	SKA1416	2011	SLA560	1114	SM230	1104	SP90	2034	SPS4199	2009
SGR100	1104	SI-RECT-140/TR-6	561	SKA-4075	2011	SLA561	1114	SM240	1104	SP4231	2041	SPS4303	2009
SH-1	1104	SI-RECT-140/TR6S	561	SKA4141	2009	SLA599	1104	SM250	1104	SP7056	2012	SPS4313	2009
SH1	1104	SI-RECT-144	1104	SKA-6256	2009	SLA599A	1104	SM260	1104	SPC40	2009	SPS4345	2009
SH-1A	1104	SI-RECT-152	1102	SKA-6437	2009	SLA600	1104	SM270	1114	SPC42	2009	SPS4347	2009
SH1A	1104	SI-RECT-204	1114	SKA-8105	2009	SLA600A	1104	SM280	1114	SPC50	2009	SPS4356	2009
SH-1B	1104	SI-RECT-218	1104	SKB8339	2009	SLA601	1104	SM300	1114	SPC51	2009	SPS4359	2009
SH1B	1114	SI-RECT-220	1104	SL-030	1104	SLA601A	1104	SM483	1104	SPC52	2009	SPS4360	2009
SH1C	1114	SI-RECT-222	1104	SL030/3490	1104	SLA602	1104	SM486	1104	SPD-80062	2041	SPS4363	2009
SH-1DE	1104	SI-RECT-226	1104	SL030S	1104	SLA602A	1104	SM487	1104	SPN-01	1104	SPS4367	2009
SH-1S	1104	SI-RECT-228	563	SL-030T	1104	SLA603	1104	SM488	1104	SPN01	1104	SPS4368	2009
SH1S	1104	SI-RECT-230	563	SL030T	1104	SLA603A	1104	SM505	1104	SPS-41	2009	SPS4382	2009
SH4D05	1104	SIR-RECT-44	1104	SL0305,T	1104	SLA604	1104	SM510	1104	SPS41	2009	SPS4446	2009
SH4D1	1104	SIS2	1123	SL07040	017	SLA604A	1104	SM512	1104	SPS43-1	2011	SPS4450	2009
SH4D2	1104	SIS11	1123	SL07055	017	SLA605	1104	SM513	1104	SPS429	2011	SPS4451	2009
SH4D3	1104	SIS20	1123	SL08066	017	SLA605A	1104	SM514	1104	SPS816	2011	SPS4453	2009
SH4D4	1104	SISD-1HF	1114	SL08797	010	SLA606	1104	SM515	1104	SPS817	2009	SPS4455	2009
SH4D6	1104	SISD-1X	1104	SL-2	1104	SLA606A	1104	SM516	1104	SPS817N	2009	SPS4456	2009
SH4D8	1114	SISD-K	1104	SL2	1104	SLA1095	1104	SM517	1114	SPS-856	2011	SPS4457	2009
SH15	1104	SISM-150-01	1104	SL-3	1104	SLA1096	1104	SM518	1114	SPS856	2011	SPS4459	2009
SH1064	2009	SISW-05-02	1104	SL3	1104	SLA1100	1104	SM520	1114	SPS-860	2011	SPS4472	2009
SHAD-1	1104	SISW-0502	1104	SL-4	1104	SLA1101	1104	SM576-1	2009	SPS860	2011	SPS4476	2009
SHAD1	1104	SJ051E	1104	SL-5	1104	SLA1102	1104	SM576-2	2009	SPS868	2009	SPS4478	2009
SI-05A	1114	SJ051F	1104	SL5	1104	SLA1104	1104	SM645	1104	SPS907	2009	SPS4491	2009
SI-1A	1114	SJ052E	1104	SL91	1104	SLA1105	1104	SM646	1104	SPS-934	2009	SPS4493	2009
SI-2A	1114	SJ052F	1104	SL92	1104	SLA1487	1104	SM705	1104	SPS-952-2	2014	SPS4494	2009
SI-3A	1114	SJ60F	1104	SL93	1104	SLA1488	1104	SM710	1104	SPS1045	2009	SPS4498	2009
SI-4A	1114	SJ102F	1104	SL103	1102	SLA1489	1104	SM-716	2009	SPS-1473RT	2011	SPS4920	2009
SI-5A	1114	SJ201F	1104	SL300	2009	SLA1490	1104	SM716	2009	SPS-1475	2009	SPS4942	2009
SI-6A	1114	SJ202F	1104	SL301A	2038	SLA1491	1104	SM720	1104	SPS1475	2009	SPS5000	2009
SI-7A	1114	SJ301F	1104	SL301AE	2038	SLA1492	1104	SM730	1104	SPS-1475(YT)	2031	SPS5006	2009
SI-8A	1114	SJ302F	1104	SL301B	2038	SLA1692	1104	SM740	1104	SPS-1475YT	2009	SPS5006-1	2009
SI-10A	1114	SJ401F	1104	SL301BE	2038	SLA1693	1104	SM750	1104	SPS-1539WT	2032	SPS5006-2	2009
SI50E	1104	SJ402F	1104	SL301C	2012	SLA1694	1104	SM760	1104	SPS1593WT	2032	SPS5457	2009
SI91G	1104	SJ501F	1104	SL301CE	2012	SLA1695	1104	SM770	1114	SPS2164	2009	SPS5569	2011
SI100E	1104	SJ-570	2009	SL301E	2038	SLA1696	1104	SM780	1114	SPS2167	2011	SPS6111	2009
SI1000E	1114	SJ570	2009	SL301EE	2038	SLA1697	1104	SM800	1114	SPS2224	2011	SPS6112	2009
SIB-01-02	1104	SJ601F	1104	SL303AE	2038	SLA2610	1104	SM2700	2009	SPS2225	2009	SPS6113	2009
SIB01-06	1104	SJ619	2041	SL303AT	2038	SLA2611	1104	SM2701	2009	SPS-2265	2011	SPS6571	2009
SIB01-06B	1104	SJ619-1	2041	SL303BE	2038	SLA2612	1104	SM3104	2009	SPS-2266	2011	SPS6682	2011
SIB-01-022	1104	SJ820	2041	SL303BT	2038	SLA2613	1104	SM3117A	2009	SPS2270	2009	SPS7652	2009
SIB02-03C	1104	SJ1106	2041	SL354BE	2038	SLA2614	1104	SM3505	2009	SPS3015	2009	SPT3713	2041
SIB02-03CR	1104	SJ1470	2041	SL354BF	2038	SLA2615	1104	SM3986	2009	SPS3735	2009	SQ7	2001
SIB02-CR	1104	SJ2000	2041	SL608	1114	SLA2616	1114	SM4304-S	2013	SPS3751	2009	SQ46	1123
SIB02-CR1	1102(2)	SJ2008	2041	SL610	1114	SLA2617	1114	SM-4508-B	2009	SPS3787	2011	SQD-2170	2009
SIB0102	1104	SJ3464	2041	SL708	1114	SLA3193	1104	SM4508-B	2009	SPS3900	2009	SR0004	1102(2)
SIB0201CR	1104	SJ3604	2041	SL710	1114	SLA3194	1104	SM5379	2009	SPS3907	2009	SR-05K-2	1104
SIB-0306	1114	SJ3678	2041	SL-833	1104	SLA3195	1104	SM-5564	2009	SPS3908	2009	SR05K-2	1104
SIB0L-02	1104	SJ8701	2041	SL833	1104	SLA3196	1114	SM5564	2009	SPS3909	2009	SR-1	1104
SIB0L	1104	SJ9110	2041	SL-833A	1104	SM07275	2009	SM-5643	2009	SPS3915	2009	SR1-2	1104
SIB1	1104	SK-1B	1104	SL833A	1104	SM-1	1104	SM5643	2009	SPS3923	2009	SR1-K2	1104
SIB-C1-02	1102	SK1FM	1104	SL918	2038	SM-1-005	1104	SM5981	2009	SPS3925	2009	SR1A-1	1104
SID01E	1104	SK1K-2	1104	SL3693	2038	SM1-02	1104	SM6762	2031	SPS3926	2009	SR1A1	1104
SID01K	1114	SK-1WS0	1123	SL7990	2009	SM-1-47	1104	SM6773	2009	SPS3930	2009	SR1A-2	1104
SID01L	1104	SK-7	2001	SL20927	017	SM-1K	1104	SM7545	2009	SPS3936	2009	SR1A2	1104
SID02E	1104	SK7	2001	SL20929	007	SM4	1104	SM-7815	2009	SPS3938	2009	SR1A-4	1104
SID02K	1114	SK19	2035	SL21385	1740	SM5	1104	SM7815	2009	SPS3940	2009	SR1A4	1104
SID02L	1104	SK-218	1114	SL21673	007	SM-10	1104	SM-7836	2009	SPS3951	2009	SR1A-8	1104
SID50B851	1102	SK1640A	2009	SL21923	017	SM10	1104	SM7836	2009	SPS3957C	2009	SR1A8	1104
SID51C169	1104	SK1641	2009	SL22310	1740	SM11	1104	SM8112	2009	SPS3967	2009	SR1A-12	1104
SID50894	1102	SK3005	2007	SL22935	1740	SM20	1104	SM8113	2009	SPS3972	2009	SR1A12	1104
SIG1/200	1104	SK3010	2001	SL23324	017	SM30	1104	SM8978	2009	SPS3973	2009	SR1D1M	1104
SIG1/600	1104	SK3011	2001	SL23325	1740	SM31	1104	SM9008	2009	SPS3999	2009	SR1DM	1104
SIL-200	1104	SK3016	1104	SL23326	010	SM40	1104	SM9135	2009	SPS4003	2009	SR1DM-1	1104
SIL200	1104	SK3017	1104	SL23482	017	SM50	1104	SM9253	2009	SPS4004	2009	SR1DM1	1104
SIR-80	1104	SK3017A	1104	SL23486	007	SM51	1104	SM-A-595830-12	2011	SPS4006	2009	SR1DM-2	1104
SI-REC-73	1104	SK3020	2009	SLA01	1114	SM60	1104	SM-A-726655	2009	SPS4009	2009	SR1DM-4	1104
SI-RECT-044	1104	SK3030	1104	SLA11AB	1104	SM70	1114	SM-A-726664	2009	SPS4017	2009	SR1DMX	1104
SI-RECT-2	1104	SK3031	1104	SLA11C	1104	SM71	1114	SMB-541191	1102	SPS4020	2009	SR1E	1104
SIRECT-2	1104	SK3038	2009	SLA12AB	1104	SM73(DIODE)	1114	SM-B-610342	2009	SPS4029	2009	SR1EM	1104
SI-RECT-20	1104	SK3040	2008	SLA12C	1104	SM80	1114	SM-B-686767	2009	SPS4032	2009	SR1EM-1	1104
SI-RECT-25	1104	SK3046	2009	SLA13AB	1104	SM81	1114	SM-C-583256	2009	SPS4034	2009	SR1EM1	1104
SI-RECT-27	1104	SK3058	561	SLA13C	1104	SM83	1114	SM-C-706156	1122	SPS4037	2009	SR1EM-2	1104
SI-RECT-33	1104	SK3060	562	SLA14AB	1104	SM100	1114	SMC750123-1	007	SPS4039	2009	SR1EM2	1104
SI-RECT-34	1104	SK3062	563	SLA14C	1104	SM101	1114	SN0303	1104	SPS4040	2009	SR1EM-X	1104
SI-RECT-35	1102	SK3063	564	SLA15AB	1104	SM103	1114	SN-1	1104	SPS4041	2009	SR1FM	1104
SIRECT-36	1104	SK3081	1114	SLA15C	1104	SM105	1104	SN1	1104	SPS4042	2009	SR1FM-1	1104
SI-RECT-37	1104	SK3087	1123	SLA16AB	1104	SM110	1104	SN-1Z	1104	SPS4044	2009	SR1FM4	1104
SI-RECT-39	1104	SK3088	1123	SLA16C	1104	SM120	1104	SN60	2016	SPS4045	2009	SR1FM-8	1104
SI-RECT-48	1104	SK3089	1101	SLA17AB	1104	SM130	1104	SN80	2001	SPS4049	2009	SR1FM10	1104
SIRECT-48	1104	SK3090	1123	SLA17C	1104	SM140	1104	SN72558	038	SPS4052	2009	SR1FM12	1104
SI-RECT-49	1104	SK3091	1123	SLA18AB	1114	SM-150	1114	SN72558P	038	SPS4053	2009	SR1FM20	1114
SI-RECT-53	1104	SK3100	1102	SLA18C	1114	SM150	1114	SN72709L	017	SPS4055	2009	SR1FMA	1104
SI-RECT-59	1104	SK3112	2035	SLA19AB	1114	SM-150-005	1114	SN72741L	007	SPS4059	2009	SR-1HM-2	1104
SIRECT-59	1104	SK3116	2035	SLA19C	1114	SM150-01	1114	SN72741N	010	SPS4060	2009	SR1HM-2	1104
SI-RECT-69	1104	SK3117	2038	SLA440	1104	SM-150-02	1114	SN76177	702	SPS4061	2009	SR1HM-4	1104
SI-RECT-73	1104	SK3122	2009	SLA440B	1104	SM150-02	1114	SN76177ND	702	SPS4062	2009	SR1HM-12	1104
SI-RECT-74	1104	SK3124	2010	SLA441	1104	SM150-6	1114	SNO303	1104(2)	SPS4063	2009	SR1HM-16	1104
SI-RECT-75	1104	SK3165	1740	SLA441B	1104	SM150-11	1114	SNW-Q-2	2001	SPS4066	2009	SR1K08	1104
SI-RECT-77	1104	SK3174	1104	SLA442	1104	SM-150A	1114	SNW-Q-3	2001	SPS4067	2009	SR-1K	1104
SI-RECT-84	1104	SK3183	2040	SLA442B	1104	SM150A	1114	SNW-Q-5	2001	SPS4069	2009	SR1K	1104
SI-RECT-92	1104	SK3434A	2009	SLA443	1104	SM-150B	1104	S-O5	1104	SPS4074	2009	SR1K/494	1104
SIRECT-92	1104	SK3510	2041	SLA443B	1104	SM150B	1114	SO5	1104	SPS-4075	2009	SR1K-1	1104
SI-RECT-94	1104	SK3552	017	SLA444	1104	SM150C	1114	SO10G	1114	SPS4075	2009	SR-1K-2	1104
SI-RECT-100	1104	SK3557	038	SLA444A	1104	SM150D	1114	SO501	1104	SPS4077	2009	SR-1K2	1104
SI-RECT-100-102	1104	SK-3960	2009	SLA444B	1104	SM150S	1114	SO-632	562	SPS4081	2009	SR1K-2	1104
SI-RECT-102	1104	SK3960	2009	SLA-445	1104	SM150SS	1114	SOA	1114	SPS4083	2009	SR1K2	1104
SI-RECT102	1104	SK5801	2009	SLA445	1104	SM160	1104	SOD200D	1104	SPS4084	2009	SR1K-2/494	1104
SIRECT-102	1104	SK5915	2009	SLA445B	1104	SM170	1114	SP-1	1104	SPS4085	2009	SR-1K-2A	1114
SI-RECT-102A	1114	SK8215	2009	SLA536	1104	SM180	1114	SP1	1104	SPS4088	2009	SR-1K-2B	1114
SI-RECT-110/SB-3F	1104	SK8251	2009	SLA537	1104	SM200	1114	SP1K-1	1104	SPS4089	2009	SR-1K-2C	1114
SI-RECT-112	1104	SKA0030	2009	SLA538	1104	SM205	1104	SP1K-2	1104	SPS4095	2009	SR-1K-2D	1114

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SR1K-4	1104	SR1266	1104	ST55	2009	SV-01B	1104	SYL-101	2001	T065	1104	T-399	2009
SR1K-8	1104	SR1378-1	1104	ST56	2009	SV-02	561	SYL101	2001	T-075	1104	T399	2009
SR1K8	1104	SR1378-3	1104	ST57	2009	SV-02(RECTIFIER)	1104	SYL-102	2001	T075	1104	T-400	1104
SR1K-Z	1104	SR1493	1104	ST58	2009	SV02A	1104	SYL102	2001	T0101	2007	T400	1104
SR1T	1104	SR1549	1104	ST59	2009	SV-03	1104	SYL103	2001	T0102	2007	T416-16(SEARS)	2009
SR-1Z	1104	SR-1668	1104	ST63	2009	SV-04	1102	SYL104	2001	T-0150	1104	T417	2009
SR1Z	1104	SR1668	1104	ST64	2009	SV04	1104	SYL-105	2007	T0150	1104	T-450	1104
SR-2	1114	SR1692	1104	ST150	2009	SV-05	1104	SYL105	2007	T1-1A6	2009	T450	1104
SR2A-1	1104	SR1693	1104	ST151	2009	SV05	1104	SYL-106	2007	T1-741	2035	T457-16	2009
SR2A1	1104	SR1694	1104	ST152	2009	SV-3	1102	SYL106	2007	T1G	1123	T457-16(SEARS)	2009
SR2A-2	1104	SR1695	1104	ST153	2009	SV-3A	1102	SYL152	2009	T1P3055	2041	T458-16	2009
SR2A2	1104	SR1731-1	1104	ST154	2009	SV-3B	1102	SYL-160	2007	T1S-18	2013	T459(SEARS)	2009
SR2A-4	1104	SR1731-2	1104	ST155	2009	SV-3C	1102	SYL160	2007	T1S18	2013	T460	2009
SR2A4	1104	SR1731-3	1104	ST156	2009	SV-8	1102	SYL792	2007	T1S34	2035	T461-16	2009
SR2A-8	1114	SR1731-4	1104	ST157	2009	SV-9	562	SYL-1182	2009	T1S55	2009	T461-16(SEARS)	2009
SR2A8	1104	SR1731-5	1104	ST160	2009	SV9	1102	SYL1182	2009	T1S58	2035	T462	2009
SR2A-12	1114	SR1742	1104	ST161	2009	SV-9(ZENER)	562	SYL1279	2001	T1S59	2035	T462(SEARS)	2009
SR2A12	1104	SR1766	1104	ST162	2009	SV30	1123	SYL-1297	2001	T1S88	2035	T472	2009
SR-3	1104	SR-1849-1	1104	ST163	2009	SV-31	1123	SYL1297	2001	T1S95	2031	T472(SEARS)	2009
SR3	1104	SR1984	1104	ST-172	2001	SV-31(DIODE)	1123	SYL-1310	2001	T1SDS1K	1104	T483(SEARS)	2009
SR3AM	1114	SR2121	1104	ST172	2001	SV135	563	SYL1310	2001	T2G(DIODE)	1123	T484(SEARS)	2009
SR3AM-2	1114	SR2301	1104	ST175	2009	SV138	564	SYL-1311	2001	T2R	038	T485(SEARS)	2009
SR3AM2	1104	SR2301A	1104	ST176	2009	SV-138A	564	SYL1311	2001	T3/2	1104	T486(SEARS)	2009
SR3AM-3	1114	SR3010	1104	ST177	2009	SV1017	563	SYL1312	2001	T3G	1123	T-500	1104
SR3AM-4	1114	SR3582	1104	ST178	2009	SV1020	564	SYL1313	2001	T7	1123	T500	1104
SR3AM-8	1104	SR3943	1104	ST180	2009	SV-1020A	564	SYL1326	2001	T8/2	1104	T-550	1104
SR3BM-6	1104	SR6134	1104	ST181	2009	SV1238	1104	SYL1327	2001	T8G	1123	T550	1104
SR4	1104	SR6324	1104	ST182	2009	SV-1238E	1104	SYL1329	2001	T9	1123	T-600	1104
SR-5	1104	SR6325	1104	ST250	2009	SV1238E	1104	SYL1380	2001	T9G	1123	T600	1104
SR5	1104	SR6385	1104	ST251	2009	SV4012	563	SYL1396	2001	T11	1123	T615A002	2009
SR-13H	1104	SR6415	1104	ST-370	2007	SV4012A	563	SYL1408	2001	T12	1123	T615A006-1	2009
SR13H	1104	SR6560	1104	ST403	2009	SV4015	564	SYL1454	2001	T12-1	1102	T-650	1104
SR-14	1104	SR6567	1104	ST501	2009	SV-4015A	564	SYL1524	2001	T12-2	1102	T650	1104
SR16	1104	SR6617	1104	ST502	2009	SV4015A	564	SYL1536	2001	T12A	1102	T650(TRANSISTOR)	2009
SR-17	1104	SR6723	1104	ST503	2009	SV-12388	1104	SYL1537	2001	T12B	1102	T-750-713	1123
SR17	1104	SR6724	1104	ST504	2009	SV12388	1104	SYL1538	2001	T12C	1102	T-750-714	562
SR-18	1104	SR-9001	1114	ST-1242	2009	SV12388E	1104	SYL1539	2001	T12G	1123	T800	1114
SR18	1104	SR9005	1104	ST1242	2009	SVC625	561	SYL1547	2001	T-13	1104	T800X	1114
SR-22	1104	SR-9007	1114	ST-1243	2009	SVC650	561	SYL1588	2007	T13	1123	T-1000	1114
SR22	1104	SR50253-2	1104	ST1243	2009	SVD02Z9.5A	562	SYL1591	2001	T-13G	1104	T-1000X	1114
SR-23	1104	SR50411-1	1104	ST-1244	2009	SVD0A79	1123	SYL-1608	2007	T13G	1123	T1000X	1114
SR23	1104	SR50517	1104	ST1244	2009	SVD-1S1717	562	SYL1608	2007	T-14	1104	T1008-834	2009
SR-24	1104	SR75844	2009	ST-1290	2009	SVD1S1717	562	SYL1617	2001	T14	1123	T1085	1104
SR24	1104	SRIDM	1104	ST1290	2009	SVD1S1850	1104	SYL1690	2007	T-14G	1104	T1208	2035
SR-27	1104	SRIDM-1	1104	ST1506	2009	SVD10D-1	1104	SYL1697	2007	T14G	1123	T1224	2030
SR27	1104	SRIDM-4	1104	ST1607	2009	SVD20A70	1123	SYL1717	2007	T16	1102	T1251	2007
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SR28	1104	SRIEM-2	1104	ST2040P	1104	SVDMA26	1104	SYL1941	2001	T18	1123	T1276	2021
SR-30	1104	SRIEM-4	1104	ST4150	2012	SVDMA26-1	1123	SYL-1987	2001	T20	1123	T1289	2003
SR30	1104	SR-IK-2	1104	ST4201	2012	SVDOA70	1123	SYL1987	2001	T20G	1123	T1291	2003
SR-34	1102	SRK1	1104	ST4202	2012	SVDOA90	1123	SYL2120	2007	T21	1123	T1312	2007
SR-35	1114	SRK-2	1104	ST5060	2009	SVDSC20	1123	SYL-2130	2001	T21G	1123	T1322	2007
SR35	1104	SRLFM-1	1104	ST5641	2031	SVDVD1121	1102	SYL2130	2001	T22	1123	T1326	2007
SR40	1104	SS0001O	1104	ST6510	2011	SVDVD1223	1104	SYL-2131	2001	T-22G	1104	T1340A3I	2009
SR50	1104	SS0007	1123	ST6511	2009	SVM61	561	SYL2131	2001	T22G	1123	T1340A3J	2009
SR60	1104	SS0008	1123	ST6512	2009	SVM601	561	SYL-2132	2001	T23	1123	T1340A3K	2009
SR76	1104	SS0009	1104	ST22546-1	1122	SVM602	561	SYL2132	2001	T23G	1123	T1340A31	2009
SR100	1104	SS00010	1104	ST32012-0037	1122	SVM605	561	SYL2134	2001	T24G	1123	T1408	2013
SR-101-1	1104	SS-1	1104	ST61000	2022	SVM6010	561	SYL2135	2001	T-26G	1104	T1413	2009
SR101-1	1104	SS1-145128	2009	STB01-02	1102	SVM6011	561	SYL2136	2001	T26G	1123	T1414	2009
SR-101-2	1104	SS29A4	2022	STB576	1102	SVM6020	561	SYL-2245	2001	T27G	1123	T1415	2009
SR101-2	1104	SS29A5	2022	STBOL-02	1104	SVM6021	561	SYL2245	2001	T35A-5	2009	T-1416	2009
SR105	1104	SS321	1104	STC-1035	2041	SW01	563	SYL-2246	2001	T-46	2007	T1416	2009
SR-112	1104	SS322	1104	STC1035	2041	SW-05	1104	SYL2246	2001	T-47	2007	T1417	2009
SR112	1104	SS324	1104	STC-1035A	2041	SW05	1104	SYL2247	2007	T-48	2007	T1450	1104
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SR-120	1104	SS337	1104	STC-1036	2041	SW05-01	1104	SYL-2249	2007	T-78	2007	T1495	2009
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SR-130-1	1104	SS2504	2009	STC1036A	2041	SW05A	1104	SYL2650	2001	T-109	2007	T1746	2009
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SR131-1	1104	SS3638	2034	STC1081	2041	SW05C	1114	SYL4315	2001	T131	2007	T1746B	2009
SR-132-1	1104	SS3638A	2034	STC1082	2041	SW05D	1114	SYL4339	2001	T143	2009	T1746C	2009
SR132-1	1104	SS3694	2009	STC1083	2039	SW05S	1104	SZ6.2	561	T151	1102	T1748	2009
SR135-1	1104	SS-3704	2035	STC1084	2041	SW05SS	1104	SZ6.2A	561	T152	1102	T1748A	2009
SR-136	1104	SS3704	2035	STC-1085	2041	SW-05V	1104	SZ-9	562	T153	1102	T1748B	2009
SR144	1104	SS3735	2035	STC4252	2041	SW05V	1104	SZ9	562	T154	1102	T1748C	2009
SR145	1104	SS9328	2009	STC4253	2041	SW0501	1104	SZ9.1	562	T155	1102	T1802	2009
SR150	1114	SSD974	1104	STC4254	2041	SW0.5A	1104	SZ12	563	T156	1104	T1802A	2009
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SR151	1104	ST03	2009	STI-20	2008	SW1D	1114	SZ-15B	564	T159	1104	T1805	2009
SR152	1104	ST04	2009	STI-30	2008	SWC	1114	SZ15.0	564	T170	2009	T1810	2009
SR200	1104	ST05	2009	STT2405	2020	SWD	1114	SZ-150	564	T171	2009	T1810B	2009
SR200B	1104	ST06	2009	STT2406	2020	SWO.5A	1104	SZ150	564	T185	2009	T-1877	2007
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SR390	1104	ST/217/Q	2009	STT9002	2020	SX55	2009	SZ-200-15	564	T-203	2011	T1909	2009
SR390-2	1104	ST11	2011	STT9004	2020	SX408	2013	SZ-200-15A	564	T235A013-2	2009	T-2038	2007
SR-401	1104	ST-12	1104	STT9005	2020	SX623	1104	SZ671-B	563	T237	2009	T2038	2007
SR401	1104	ST-14	1104	STV-3	1104	SX631	1104	SZ671-G	563	T-255	2009	T-2039	2007
SR405	1104	ST16	1104	STX0014	2041	SX633	1104	SZ961-B	564	T255	2009	T2039	2007
SR500	1104	ST18	1114	STX0027	2041	SX641	1104	SZC9	562	T-256	2009	T-2040	2007
SR500B	1104	ST25A	2009	STX0032	2041	SX-642	1104	SZT8	563	T256	2009	T2040	2007
SR605	1104	ST25B	2009	ST.082.112.005	2009	SX642	1104	SZT-9	562	T277	2009	T-2091	2007
SR806-126	1104	ST25C	2009	ST.082.114.015	2009	SX643	1104	SZT9	562	T291	2009	T2091	2007
SR-846-2	1104	ST-28B	2007	SU5	564	SX644	1104	T0-101	2007	T-300	1104	T2122	2007
SR846-2	1104	ST-28C	2007	SU-31	1123	SX645	1104	T0-102	2007	T300	1104	T2172	2007
SR846-3	1104	ST-37C	2007	SUC650	561	SX780	1102	T01-013	2009	T327	2009	T2173	2007
SR851	1104	ST-37D	2007	SUM6010	561	SX-990	1123	T01-014	2009	T327-2	2009	T2256	2007
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SR-889	1104	ST50	2009	SUM6020	561	SX3711	2009	T01-104	2009	T339	2009	T2258	2007
SR889	1104	ST51	2009	SUM6021	561	SX3819	2035	T01-105	2009	T342	2009	T2259	2007
SR1024	1104	ST53	2009	SV-01A	1104	SX3826	2013	T033Z3	2007	T346	2007	T2260	2007
SR1104	1104	ST54	2009	SV01A	1104	SY101	2002	T-065	1104	T386	2009	T2261	2007

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T-2439	2007	TA7068	2041	T-E1118	1102	TG2SC536(E)	2009	TI-421	2013	TIS-62	2009	TKF100	1114
T-2440	2007	TA7069	2041	T-E1119	1102	TG2SC536-E-B	2009	TI-422	2016	TIS62	2016	TL1	1104
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T9011G(CD)	2009	TAA522/709	017	TE1420	2009	TG-21	1104	TI480	2009	TIS-88	2035	TM33	1104
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T9011H(EF)	2009	TAC047	2009	TE2369	2033	TG-22	1104	TI481	2009	TIS90	2009	TM43	1104
T9011I(EF)	2009	TBA221	007	TE2484	2010	TG22	1104	TI-482	2030	TIS90-2	2009	TM62	1104
T9011J(GH)	2009	TBA221/741C	007	TE2711	2016	TG-28	1123	TI482	2009	TIS92	2009	TM63	1104
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T21237	1123	TC02P112	1104	TE2922	2016	TG-42	1104	TI-493	2013	TIS94(AFAMP)	2031	TMD03A	561
T21238	1123	TC0P11/2	1104	TE2923	2016	TG42	1104	TI493	2009	TIS94(XSTR)	2031	TMD07	562
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T21312	1104	TC-136	1104	TE3393	2016	TG-51	1104	TI494	2009	TIS96	2009	TMD10	563
T21313	1123	TC136	1104	TE3394	2016	TG51	1104	TI-495	2013	TIS97	2011	TMD10A	563
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T-52149Z	2007	TE500	2036	TE3845	2016	TH800	1114	TI908	2009	TIXA-03	2007	TNJ6172(2SC722)	2011
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TA6	2009	T-E1024C	1104	TE4125	2034	THSG105	1104	TIL209	042	TIXS30	2016	TNJ60606	2011
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TA-1763A	2007	TE1080	1104	TF20	1104	TI-363	2007	TIS39	2038	TK50	1104	TNJ70640	2009
TA1763A	2007	T-E1088	1104	TF21	1104	TI-364	2007	TIS42	2035	TK60	1104	TNJ71036	2009
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TA1767	2001	T-E1089	1104	TF23	1104	TI-408	2011	TIS45	2016	TK400	1104	TNJ71937	2011
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WN-063C	561	WP-088D	562	WR-094A	562	WT-090B	562	WV-092A	562	WX-150	564	X-19002	010
WN-063D	561	WP-090	562	WR-094B	562	WT-090C	562	WV-092B	562	WX-150A	564	X-19031-A	1122
WN-065	561	WP-090A	562	WR-094C	562	WT-090D	562	WV-092C	562	WX-150B	564	X330302	563
WN-065A	561	WP-090B	562	WR-094D	562	WT-092	562	WV-092D	562	WX-150C	564	X925940-501B	1102
WN-065B	561	WP-090C	562	WR100	1104	WT-092A	562	WV-094	562	WX-150D	564	X925940-5018	1102
WN-065C	561	WP-090D	562	WR-120	563	WT-092B	562	WV-094A	562	WY-061	561	X1022220-1	1102
WN-065D	561	WP-092	562	WR-120A	563	WT-092C	562	WV-094B	562	WY-061A	561	XA121	1104
WN-088	562	WP-092A	562	WR-120B	563	WT-092D	562	WV-094C	562	WY-061B	561	XA701	2001
WN-088A	562	WP-092B	562	WR-120C	563	WT-094	562	WV-094D	562	WY-061C	561	XA702	2001
WN-088B	562	WP-092C	562	WR-120D	563	WT-094A	562	WV-120	563	WY-061D	561	XA703	2001
WN-088C	562	WP-092D	562	WR-150	564	WT-094B	562	WV-120A	563	WY-063	561	XA-1071	2009
WN-088D	562	WP-094	562	WR-150A	564	WT-094C	562	WV-120B	563	WY-063A	561	XA-1078	2041
WN-090	562	WP-094A	562	WR-150B	564	WT-094D	562	WV-120C	563	WY-063B	561	XA-1139	2009
WN-090A	562	WP-094B	562	WR-150C	564	WT-120	563	WV-120D	563	WY-063C	561	XA-1161	2041
WN-090B	562	WP-094C	562	WR-150D	564	WT-120A	563	WW-061	561	WY-063D	561	XAN692	056
WN-090C	562	WP-094D	562	WR-200	1104	WT-120B	563	WW-061A	561	WY-065	561	XAN694	066
WN-090D	562	WP-120	563	WR200	1104	WT-120C	563	WW-061B	561	WY-065A	561	XB4	2001
WN-092	562	WP-120A	563	WR300	1104	WT-120D	563	WW-061C	561	WY-065B	561	XB152	564
WN-092A	562	WP-120B	563	WR400	1104	WT-150	564	WW-061D	561	WY-065C	561	XC371	2011
WN-092B	562	WP-120C	563	WRE-981	1104	WT-150A	564	WW-063	561	WY-065D	561	XC372	2009
WN-092C	562	WP-120D	563	WRE981	1104	WT-150B	564	WW-063A	561	WY-088	562	XC373	2009
WN-092D	562	WP-150	564	WRR1952	2009	WT-150C	564	WW-063B	561	WY-088A	562	XC374	2009
WN-094	562	WP-150A	564	WRR1953	2009	WT-150D	564	WW-063C	561	WY-088B	562	XC723	2041
WN-094A	562	WP-150B	564	WRR1954	2009	WTVB6	2007	WW-063D	561	WY-088C	562	XEJ040017	2009
WN-094B	562	WP-150C	564	WRR1955	1104	WTV-L6	2001	WW-065	561	WY-088D	562	XG30	2009
WN-094C	562	WP-150D	564	WRR1956	1104	WTVL6	2001	WW-065A	561	WY-090	562	XN-400-318-P1	2009
WN-094D	562	WQ-061	561	WS-061	561	WTVSA7	2001	WW-065B	561	WY-090A	562	XNC101	2001
WN-120	563	WQ-061A	561	WS-061A	561	WTVSK7	2001	WW-065C	561	WY-090B	562	XS9.1B	562
WN-120A	563	WQ-061B	561	WS-061B	561	WTVSQ7	2001	WW-065D	561	WY-090C	562	XS-10	1104
WN-120B	563	WQ-061C	561	WS-061C	561	WU-061	561	WW-088	562	WY-090D	562	XS10	1104
WN-120C	563	WQ-061D	561	WS-061D	561	WU-061A	561	WW-088A	562	WY-092	562	XS16	1104
WN-120D	563	WQ-063	561	WS-063	561	WU-061B	561	WW-088B	562	WY-092A	562	XS16A	1104
WN-150	564	WQ-063A	561	WS-063A	561	WU-061C	561	WW-088C	562	WY-092B	562	XS17	1104
WN-150A	564	WQ-063B	561	WS-063B	561	WU-061D	561	WW-088D	562	WY-092C	562	XS17A	1104
WN-150B	564	WQ-063C	561	WS-063C	561	WU-063	561	WW-090	562	WY-092D	562	XS18	1104
WN-150C	564	WQ-063D	561	WS-063D	561	WU-063A	561	WW-090A	562	WY-094	562	XS21	2009
WN-150D	564	WQ-065	561	WS-065	561	WU-063B	561	WW-090B	562	WY-094A	562	XS22	2009
WO-061	561	WQ-065A	561	WS-065A	561	WU-063C	561	WW-090C	562	WY-094B	562	XS22(RECT.)	1104
WO-061A	561	WQ-065B	561	WS-065B	561	WU-063D	561	WW-090D	562	WY-094C	562	XS23	1104
WO-061B	561	WQ-065C	561	WS-065C	561	WU-065	561	WW-092	562	WY-094D	562	XS23A	1104
WO-061C	561	WQ-065D	561	WS-065D	561	WU065A	561	WW-092A	562	WY-120	563	XS-31	1104
WO-061D	561	WQ-088	562	WS-088	562	WU-065B	561	WW-092B	562	WY-120A	563	XS31	1104
WO-063	561	WQ-088A	562	WS-088A	562	WU-065C	561	WW-092C	562	WY-120B	563	XS40	2011
WO-063A	561	WQ-088B	562	WS-088B	562	WU-065D	561	WW-092D	562	WY-120C	563	XS40A	1104
WO-063B	561	WQ-088C	562	WS-088C	562	WU-088	562	WW-094	562	WY-120D	563	XT-548A	2041
WO-063C	561	WQ-088D	562	WS-088D	562	WU-088A	562	WW-094A	562	WY-150	564	XU604	1104
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WO-065C	561	WQ-090D	562	WS-090D	562	WU-090A	562	WW-115A	563	WZ-061	561	XZ092	562
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WO-088B	562	WQ-092C	562	WS-092D	562	WU-092	562	WW-120	563	WZ-063A	561	Y49001-21	2009
WO-088C	562	WQ-092D	562	WS-094	562	WU-092A	562	WW-120A	563	WZ065	561	Y56001-21	1122
WO-088D	562	WQ-094	562	WS-094A	562	WU-092B	562	WW-120B	563	WZ-065A	561	Y56001-86	2009
WO-090	562	WQ-094A	562	WS-094B	562	WU-092C	562	WW-120C	563	WZ-085	562	Y56601-08	2009
WO-090A	562	WQ-094B	562	WS-094C	562	WU-092D	562	WW-120D	563	WZ085	562	Y56601-45	2009
WO-090B	562	WQ-094C	562	WS-094D	562	WU-094	562	WW-150	564	WZ-088	562	Y56601-49	2009
WO-090C	562	WQ-094D	562	WS100	1102	WU-094A	562	WW-150A	564	WZ-090	562	Y56601-51	2009
WO-090D	562	WQ-120	563	WS100A	1102	WU-094B	562	WW-150B	564	WZ090	562	Y56601-73	2009
WO-092	562	WQ-120A	563	WS100B	1102	WU-094C	562	WW-150C	564	WZ-092	562	Y56601-75	2009
WO-092A	562	WQ-120B	563	WS100C	1102	WU-094D	562	WW-150D	564	WZ092	562	Y56601-80	2009
WO-092B	562	WQ-120C	563	WS-120	563	WU-20B	563	WX-061	561	WZ-094	562	Y56601-86-AD	2009
WO-092C	562	WQ-120D	563	WS-120A	563	WU-120	563	WX-061A	561	WZ6.2	561	Y56601-86-AH(GREEN)	
WO-092D	562	WQ-150	564	WS-120B	563	WU-120A	563	WX-061B	561	WZ9.1	562		2009
WO-094	562	WQ-150A	564	WS-120C	563	WU-120C	563	WX-061C	561	WZ12	563	Y56601-86-AH(ORANGE)	
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WO-094B	562	WQ-150C	564	WS-150	564	WU-125	563	WX-063	561	WZ-90	562	Y56601-86AH(YELLOW)	
WO-094C	562	WQ-150D	564	WS-150A	564	WU-125A	563	WX-063A	561	WZ-120	563		2009
WO-094D	562	WR006	1104	WS-150B	564	WU-125B	563	WX-063B	561	WZ120	563	Y56601-93	2009
WO-6A	1104	WR-013	1104	WS-150C	564	WU-125C	563	WX-063C	561	WZ140	564	YAAD004	1104
WO6A	1104	WR013	1104(2)	WS-150D	564	WU-125D	563	WX-063D	561	WZ-145	564	YAAD007	1104
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WO-120A	563	WR-061C	561	WS200C	1102	WU-150C	564	WX-065C	561	WZ-538	564	YAAD019	1104
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WO-150D	564	WR-065A	561	WT-061B	561	WV-063A	561	WX-090A	562	X5M6	1104	YEAN2SC941	2010
WP-061	561	WR-065B	561	WT-061C	561	WV-063B	561	WX-090B	562	X16	1123	YOD4	1104
WP-061A	561	WR-065C	561	WT-061D	561	WV-063C	561	WX-090C	562	X16A545-7	2009	YR-011	1104
WP-061B	561	WR-065D	561	WT-063	561	WV-063D	561	WX-090D	562	X16A1938	2009	YR011	1104
WP-061C	561	WR-088	562	WT-063A	561	WV-065	561	WX-092	562	X16E3860	2009	YSG-20024	1104
WP-061D	561	WR-088A	562	WT-063B	561	WV-065A	561	WX-092A	562	X16E3960	2009	YSG-V47-1-3	1104
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WP-063B	561	WR-088D	562	WT-065	561	WV-065D	561	WX-092D	562	X32C4211	2009	YSG-V81-2-3	1102(2)
WP-063C	561	WR-090	562	WT-065A	561	WV-088	562	WX-094	562	X32C4296	2009	YSG-V139-2-2	1123
WP-063D	561	WR-090A	562	WT-065B	561	WV-088A	562	WX-094A	562	X32C5026	2009	YSG-V139-22	1123
WP-065	561	WR-090B	562	WT-065C	561	WV-088B	562	WX-094B	562	X32C5198	2009	Z0-12	563
WP-065A	561	WR-090C	562	WT-065D	561	WV-088C	562	WX-094C	562	X32D5422	2009	Z0-12A	563
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ZB1-8	561
ZB1-9	562
ZB1-9V	562
ZB-1-9.5	562
ZB1-10	563
ZB1-12	563
ZB1-15	564
ZB6.2	561
ZB6.2A	561
ZB6.2B	561
ZB9.1	562
ZB9.1A	562
ZB9.1B	562
ZB12	563
ZB12A	563
ZB12B	563
ZB13A	564
ZB15	564
ZB-15A	564
ZB15A	564
ZB15B	564
ZB-31.12	563
ZBI-09	562
ZC012	563
ZC-015	564
ZC015	564
ZC1N34A	1123
ZC1S358S	1102
ZCOM3679	1104
ZCOM-5683-0	1104
ZD012	563
ZD-015	564
ZD015	564
ZD6.2A	561
ZD6.2B	561
ZD9.1	562
ZD9.1A	562
ZD9.1B	562
ZD10B	562
ZD12	563
ZD12A	563
ZD12B	563
ZD-15	564
ZD15	564
ZD-15A	564
ZD15A	564
ZD-15B	564
ZD15B	564
ZD56B	561
ZDT	2009
ZDT10	2016
ZDT11	2016
ZDT20	2016
ZDT21	2016
ZDT30	2016
ZDT31	2016
ZE-1.5	1123
ZE9.1	562
ZE12	563
ZE12A	563
ZE12B	563
ZE-15	564
ZE15	564
ZE-15A	564
ZE15A	564
ZE-15B	564
ZE15B	564
ZEC12	563
ZEN100	2009
ZEN102	2009
ZEN103	2009
ZEN104	2038
ZEN105	2038
ZEN109	2038
ZEN110	2016
ZEN111	2016
ZEN112	2009
ZEN113	2009
ZEN114	2009
ZEN115	2009
ZEN117	2013
ZEN118	2016
ZEN119	2009
ZEN120	2009
ZEN121	2013
ZEN123	2035
ZEN126	2033
ZEN127	2009
ZEN309	2009
ZEN310	2009
ZEN315	2001
ZEN430	1123
ZEN431	1101
ZEN432	1102(2)
ZEN500	561
ZEN502	563
ZEN508	564
ZENER-122	563
ZF6.2	561
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ZF12A	563
ZF12B	563
ZF-15	564
ZF15	564
ZF-15A	564
ZF15A	564
ZF-15B	564
ZF15B	564
ZF-16	564
ZG9.1	562
ZG12	563
ZG-15	564
ZG15	564
ZG15A	564
ZG-15B	564
ZG15B	564
ZG100119	564
ZH9.1	562
ZH9.1A	562
ZH9.1B	562
ZH12	563
ZH12A	563
ZH12B	563
ZH-15	564
ZH15	564
ZH-15A	564
ZH15A	564
ZH-15B	564
ZH15B	564
ZJ12	563
ZJ12A	563
ZJ12B	563
ZJ-15	564
ZJ15	564
ZJ-15A	564
ZJ15A	564
ZJ-15B	564
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ZM9.1B	562
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ZM12B	563
ZM15	564
ZM15A	564
ZM15B	564
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ZO-12A	563
ZO-12B	563
ZO-15	564
ZO-15A	564
ZO-15AC	564
ZO-15B	564
ZO-15BY	564
ZOB6.2	561
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ZOB15	564
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ZOD15	564
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ZP9.1B	562
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ZP12B	563
ZP-15	564
ZP15	564
ZP-15A	564
ZP15A	564
ZP-15B	564
ZP15B	564
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ZQ-6	561
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ZQ12B	563
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ZQ15	564
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ZQ15A	564
ZQ-15B	564
ZQ15B	564
ZQ15X	564
ZR-10B	1104
ZR15	1104
ZR50B793-1	563
ZR50B921-3	564
ZR60	1104
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ZR62	1104
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ZR63	1104
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ZS-30B	1104
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ZS-34B	1104
ZS34B	1104
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ZS-50	1104
ZS50	1104
ZS51	1104
ZS-52	1104
ZS52	1104
ZS-53	1104
ZS53	1104
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ZS-71	1104
ZS71	1104
ZS72	1104
ZS-73	1104
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ZS74	1104
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ZS76	1104
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ZS78B	1114
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ZS92	1104
ZS94	1104
ZS100	1104
ZS101	1104
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ZT15B	564
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ZT21-12	2009
ZT21-55	2009
ZT21A	2009
ZT21B	2009
ZT21C	2009
ZT22	2009
ZT22-1	2009
ZT22-12	2009
ZT22-55	2009
ZT22A	2009
ZT22B	2009
ZT22C	2009
ZT23	2009
ZT23-1	2009
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ZT23B	2009
ZT23C	2009
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ZT24-12	2009
ZT24-55	2009
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ZT24C	2009
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ZT61B	2009
ZT61C	2009
ZT-62	2009
ZT62-1	2009
ZT62-12	2009
ZT62-15	2009
ZT62C	2009
ZT63	2009
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ZT63-12	2009
ZT63-55	2009
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ZT63C	2009
ZT64	2009
ZT64-1	2009
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ZT64B	2009
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ZT66	2009
ZT68	2009
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ZT83	2009
ZT84	2009
ZT86	2009
ZT87	2033
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ZT89	2009
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ZT110	2033
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ZT112	2009
ZT113	2009
ZT114	2009
ZT116	2009
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ZT118	2009
ZT119	2009
ZT180	2023
ZT181	2023
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ZT203P	2033
ZT204	2016
ZT204P	2033
ZT280	2023
ZT281	2023
ZT323.55	2009
ZT402	2016
ZT402P	2033
ZT403	2016
ZT403P	2033
ZT404	2016
ZT404P	2033
ZT406	2009
ZT696	2030
ZT697	2009
ZT706	2016
ZT706A	2016
ZT708	2016
ZT709	2038
ZT1420	2009
ZT1487	2041
ZT1488	2041
ZT1489	2041
ZT1490	2041
ZT1702	2041
ZT1708	2016
ZT1711	2009
ZT2205	2016
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ZT2369	2016
ZT2369A	2016
ZT2475	2038
ZT2476	2038
ZT2477	2038
ZT2708	2038
ZT2938	2033
ZTR-1N60	1123
ZTR-W06B	1104
ZTR-W06C	1104
ZTR-WO6B	1104
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ZTX301	2009
ZTX304	2009
ZTX310	2016
ZTX311	2016
ZTX312	2009
ZTX313	2009
ZTX314	2009
ZTX320	2015
ZTX321	2015
ZTX325	2015
ZTX326	2015
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ZTX330	2033
ZTX341	2012
ZTX342	2012
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ZTX510	2034
ZTX530	2023
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ZV9.1	562
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ZV9.1B	562
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ZV12A	563
ZV12B	563
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ZW0-9.1	562
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ZW9.1	562
ZX9.1	562
ZX12	563
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ZY12A	563
ZY12B	563
ZY-15	564
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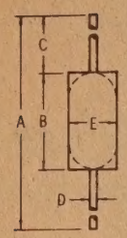
ZY-15A	564
ZY15A	564
ZY-15B	564
ZY15B	564
ZZ6.2	561
ZZ9.1	562
ZZ12	563
ZZ-15	564
ZZ15	564

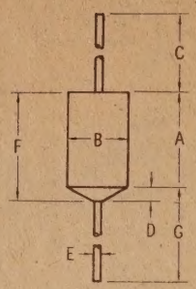
QUICK REFERENCE: CASE STYLE

A1

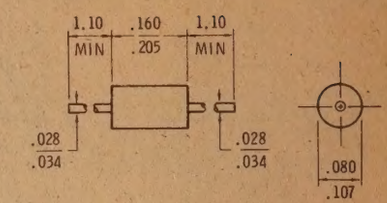


MAY SHOW COLOR BANDS TO DENOTE POLARITY.

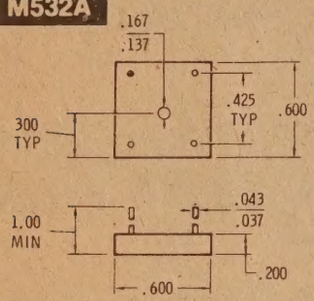
A3



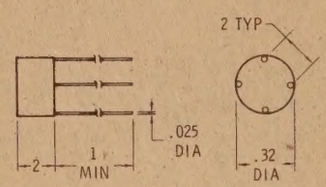
DO41



M532A

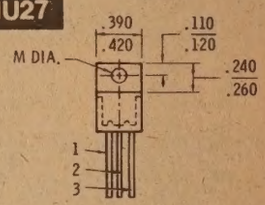


M548



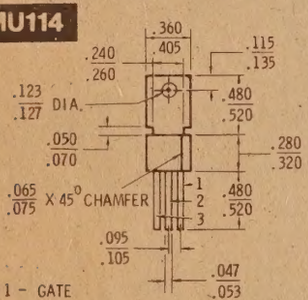
POS RED OR SQUARE LEAD.

MU27



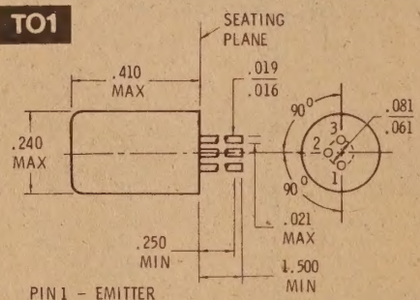
SCR	TRIAC
PIN 1 – CATHODE	ANODE 1
PIN 2 – ANODE	ANODE 2
PIN 3 – GATE	GATE

MU114



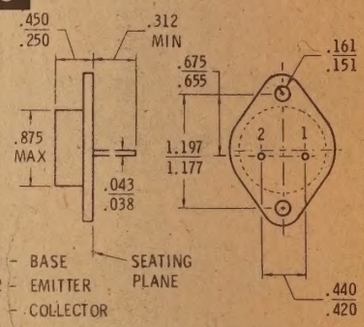
PIN 1 – GATE
PIN 2 – ANODE
PIN 3 – CATHODE

TO1



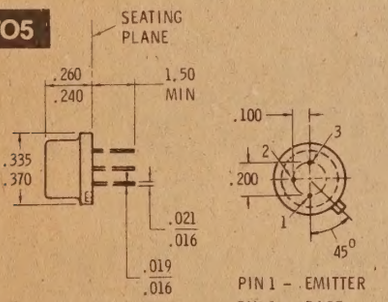
PIN 1 – EMITTER
PIN 2 – BASE
PIN 3 – COLLECTOR

TO3



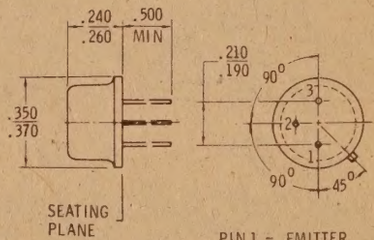
PIN 1 – BASE
PIN 2 – EMITTER
CASE – COLLECTOR
SEATING PLANE

TO5



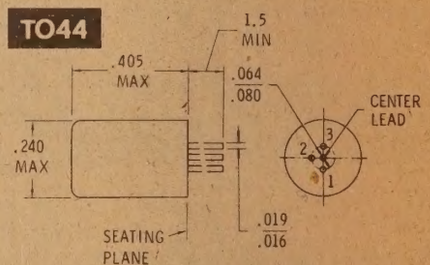
PIN 1 – EMITTER
PIN 2 – BASE
PIN 3 – COLLECTOR

TO39



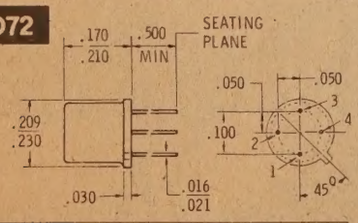
PIN 1 – EMITTER
PIN 2 – BASE
PIN 3 – COLLECTOR

TO44



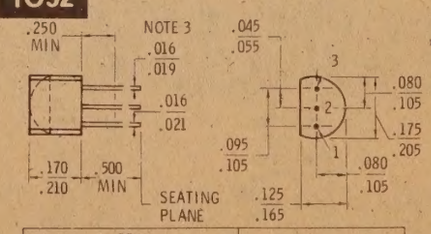
PIN 1 – EMITTER
PIN 2 – BASE
PIN 3 – COLLECTOR

TO72



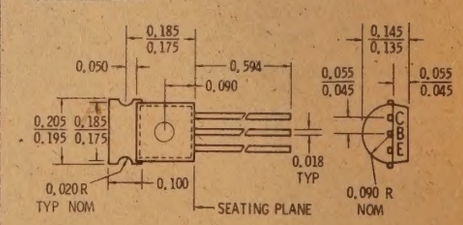
BIPOLAR TRANSISTORS	FET
PIN 1 – EMITTER	PIN 1 – SOURCE
PIN 2 – BASE	PIN 2 – DRAIN
PIN 3 – COLLECTOR	PIN 3 – GATE
PIN 4 – CASE	PIN 4 – CASE

TO92



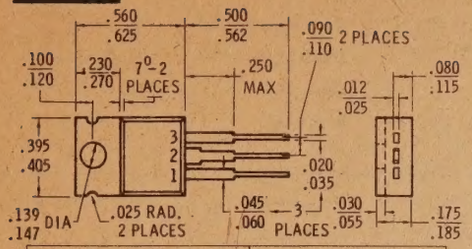
FET			SCR	BIPOLAR
N-CHANNEL	PIN	P-CHANNEL		
SOURCE	1	SOURCE	1–CATHODE	PIN 1 – E
GATE	2	DRAIN	2–GATE	PIN 2 – B
DRAIN	3	GATE	3–ANODE	PIN 3 – C

TO92 +



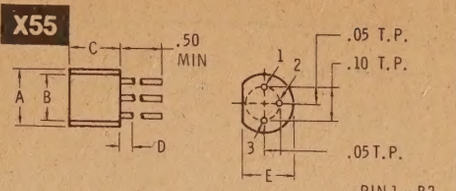
QUICK REFERENCE: CASE STYLE

TO220



BIPOLAR TRANSISTORS	TRIAC
PIN 1 - BASE	PIN 1 - ANODE 1
PIN 2 - COLLECTOR	PIN 2 - ANODE 2
PIN 3 - EMITTER	PIN 3 - GATE

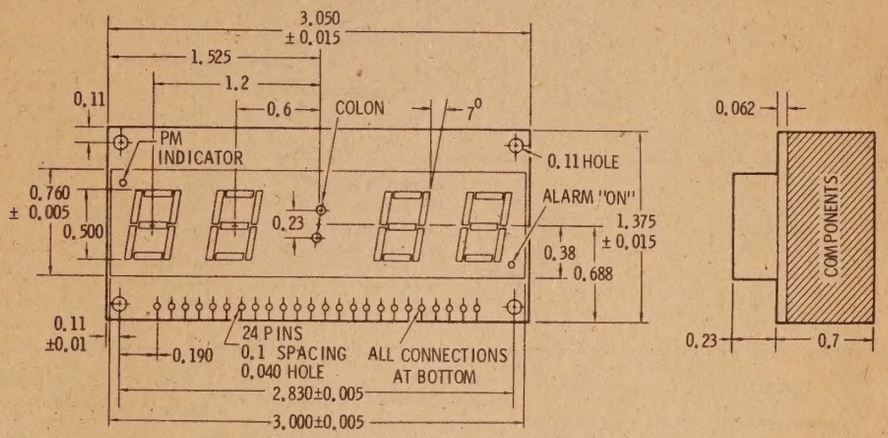
X55



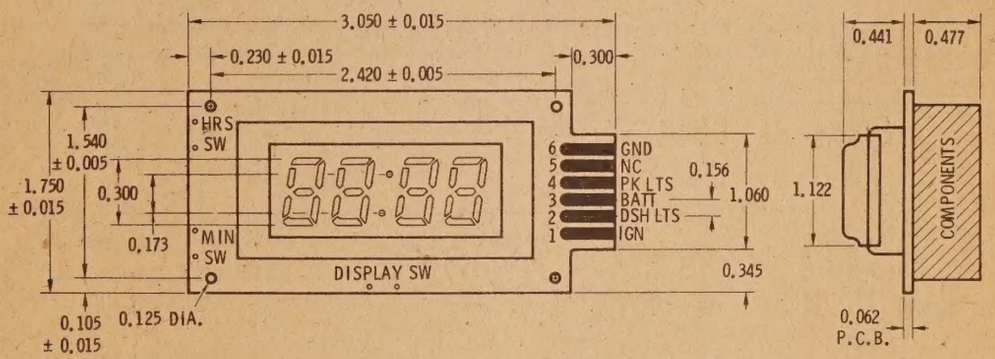
PIN 1 - B2
PIN 2 - E
PIN 3 - B1

	A	B	C	D	E
X55	.195 / .205	.150 / .170	.180 / .190	.015	.155 / .165
X55c	.200 MAX	.150	.177 MAX	.062	.149 MAX

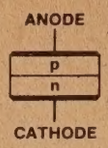
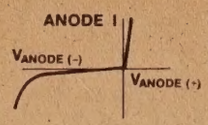
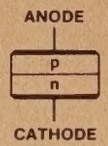
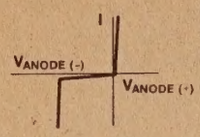
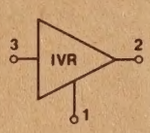
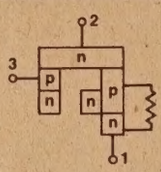
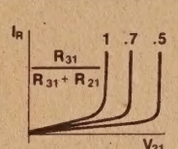
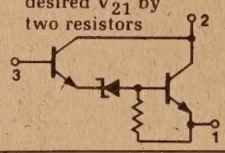
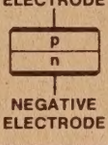
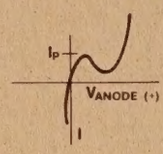
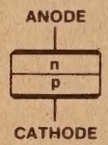
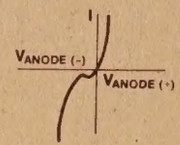
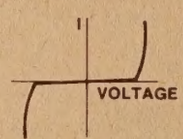
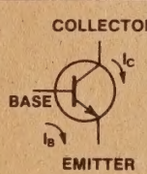
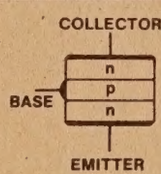
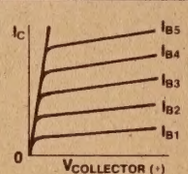
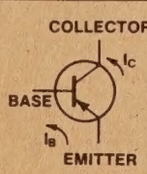
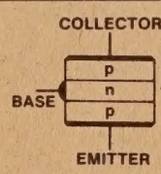
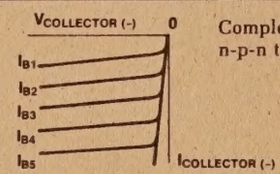
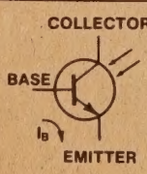
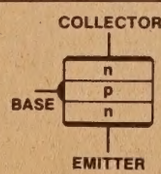
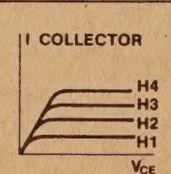
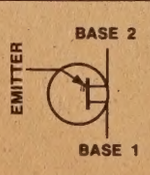
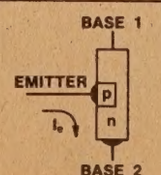
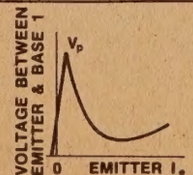
277-1001



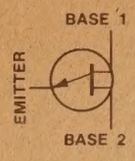
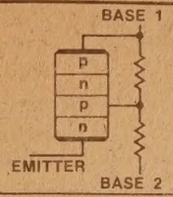
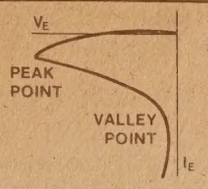
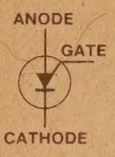
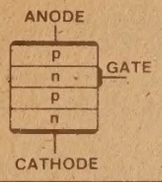
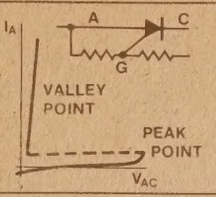
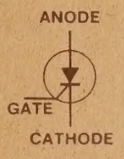
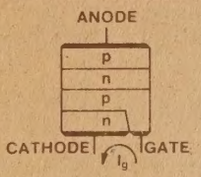
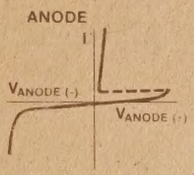
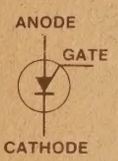
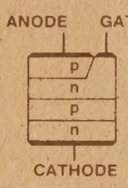
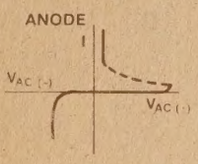
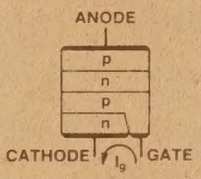
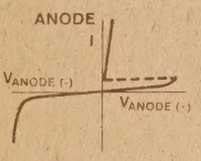
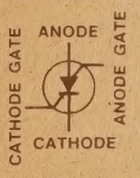
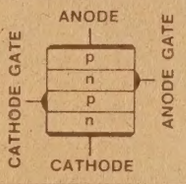
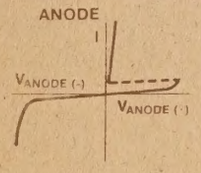
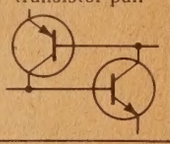
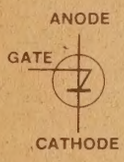
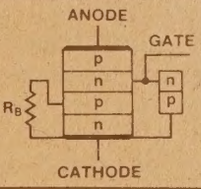
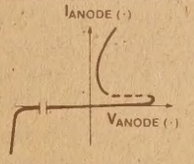
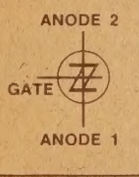
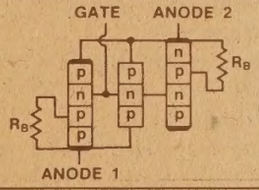
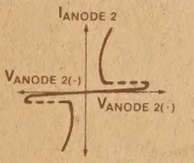
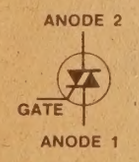
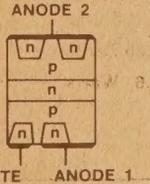
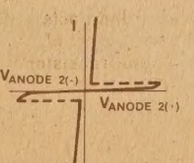
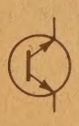
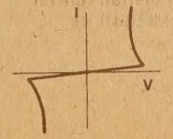
277-1003



MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS		MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Diode or Rectifier				Conducts easily in one direction, blocks in the other	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode				Constant voltage characteristic in negative quadrant	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)				Programmed to desired V_{21} by two resistors 	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode				Displays negative resistance when current exceeds peak point current I_p	Peak point current = 100 mA Resistive cutoff freq. = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode				Similar characteristics to conventional diode except very low forward voltage drop	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector				Rapidly increasing current above rated voltage in either direction	70 A peak pulse (2" Sq. cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor				Constant collector current for given base drive	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor				Complement to n-p-n transistor	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor				Incident light acts as base current of the photo transistor	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)				Unijunction emitter blocks until its voltage reaches V_p; then conducts	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS		MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)				Functional complement to UJT	30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				Programmed by two resistors for V_p, I_p, I_v. Function equivalent to normal UJT.	40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)				With anode voltage (+), SCR can be triggered by I_g, remaining in conduction until anode I is reduced to zero	1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyratron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				Polarity complement to SCR	50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)				Operates similar to SCR, except can also be triggered into conduction by light falling on junctions	1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)				Operates similar to SCR except can also be triggered on by a negative signal on anode-gate. Also several other specialized modes of operation	100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair 
Silicon Unilateral Switch (SUS)				Similar to SCS but zener added to anode gate to trigger device into conduction at ~ 8 volts. Can also be triggered by negative pulse at gate lead.	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)				Symmetrical bilateral version of the SUS. Breaks down in both directions as SUS does in forward.	0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Schockley diodes
Triac				Operates similar to SCR except can be triggered into conduction in either direction by (+) or (-) gate signal	25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger				When voltage reaches trigger level (about 35 volts), abruptly switches down about 10 volts.	40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specffications.

A, a —Anode
B, b —Base
$\mathbf{b_{fs}}$ —Common-source small-signal forward transfer susceptance
$\mathbf{b_{is}}$ —Common-source small-signal input susceptance
$\mathbf{b_{os}}$ —Common-source small-signal output susceptance
$\mathbf{b_{rs}}$ —Common-source small-signal reverse transfer susceptance
C, c —Collector
$\mathbf{C_{cb}}$ —Collector-base interterminal capacitance
$\mathbf{C_{ce}}$ —Collector-emitter interterminal capacitance
$\mathbf{C_{ds}}$ —Drain-source capacitance
$\mathbf{C_{du}}$ —Drain-substrate capacitance
$\mathbf{C_{eb}}$ —Emitter-base interterminal capacitance
$\mathbf{C_{ibo}}$ —Common-base open-circuit input capacitance
$\mathbf{C_{ibs}}$ —Common-base short-circuit input capacitance
$\mathbf{C_{ieo}}$ —Common-emitter open-circuit input capacitance
$\mathbf{C_{ies}}$ —Common-emitter short-circuit input capacitance
$\mathbf{C_{iss}}$ —Common-source short-circuit input capacitance
$\mathbf{C_{obo}}$ —Common-base open-circuit output capacitance
$\mathbf{C_{obs}}$ —Common-base short-circuit output capacitance
$\mathbf{C_{oeo}}$ —Common-emitter open-circuit output capacitance
$\mathbf{C_{oes}}$ —Common-emitter short-circuit output capacitance
$\mathbf{C_{oss}}$ —Common-source short-circuit output capacitance
$\mathbf{C_{rbs}}$ —Common-base short-circuit reverse transfer capacitance
$\mathbf{C_{rcs}}$ —Common-collector short-circuit reverse transfer capacitance
$\mathbf{C_{res}}$ —Common-emitter short-circuit reverse transfer capacitance
$\mathbf{C_{rss}}$ —Common-source short-circuit reverse transfer capacitance
$\mathbf{C_{tc}}$ —Collector depletion-layer capacitance
$\mathbf{C_{te}}$ —Emitter depletion-layer capacitance
D, d —Drain
E, e —Emitter
η —Intrinsic standoff ratio
$\mathbf{f_{hfb}}$ —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency
$\mathbf{f_{hfc}}$ —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency
$\mathbf{f_{hfe}}$ —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency
$\mathbf{f_{max}}$ —Maximum frequency of oscillation
$\mathbf{F_T}$ —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)
G, g —Gate
$\mathbf{g_{fs}}$ —Common-source small-signal forward transfer conductance
$\mathbf{g_{is}}$ —Common-source small-signal input conductance
$\mathbf{g_{MB}}$ —Common-base static transconductance
$\mathbf{g_{MC}}$ —Common-collector static transconductance
$\mathbf{g_{ME}}$ —Common-emitter static transconductance
$\mathbf{g_{os}}$ —Common-source small-signal output conductance
$\mathbf{G_{PB}}$ —Common-base large-signal insertion power gain
$\mathbf{G_{pb}}$ —Common-base small-signal insertion power gain
$\mathbf{G_{PC}}$ —Common-collector large-signal insertion power gain
$\mathbf{G_{pc}}$ —Common-collector small-signal insertion power gain
$\mathbf{G_{PE}}$ —Common-emitter large-signal insertion power gain
$\mathbf{G_{pe}}$ —Common-emitter small-signal insertion power gain
$\mathbf{G_{pg}}$ —Common-gate small-signal insertion power gain
$\mathbf{G_{ps}}$ —Common-source small-signal insertion power gain
$\mathbf{g_{rs}}$ —Common-source small-signal reverse transfer conductance
$\mathbf{G_{TB}}$ —Common-base large-signal transducer power gain
$\mathbf{G_{tb}}$ —Common-base small-signal transducer power gain
$\mathbf{G_{TC}}$ —Common-collector large-signal transducer power gain
$\mathbf{G_{tc}}$ —Common-collector small-signal transducer power gain
$\mathbf{G_{TE}}$ —Common-emitter large-signal transducer power gain
$\mathbf{G_{te}}$ —Common-emitter small-signal transducer power gain
$\mathbf{G_{tg}}$ —Common-gate small-signal transducer power gain
$\mathbf{G_{ts}}$ —Common-source small-signal transducer power gain
$\mathbf{h_{FB}}$ —Common-base static forward current transfer ratio
$\mathbf{h_{fb}}$ —Common-base small-signal short-circuit forward current transfer ratio
$\mathbf{h_{FC}}$ —Common-collector static forward current transfer ratio
$\mathbf{h_{fc}}$ —Common-collector small-signal short-circuit forward current transfer ratio
$\mathbf{h_{FE}}$ —Common-emitter static forward current transfer ratio
$\mathbf{h_{fe}}$ —Common-emitter small-signal short-circuit forward current transfer ratio
$\mathbf{h_{FEL}}$ —Inherent large-signal forward current transfer ratio
$\mathbf{h_{IB}}$ —Common-base static input resistance
$\mathbf{h_{ib}}$ —Common-base small-signal short-circuit input impedance
$\mathbf{h_{IC}}$ —Common-collector static input resistance
$\mathbf{h_{ic}}$ —Common-collector small-signal short-circuit input impedance
$\mathbf{h_{IE}}$ —Common-emitter static input resistance
$\mathbf{h_{ie}}$ —Common-emitter small-signal short-circuit input impedance
$\mathbf{h_{ie(imag)}}$ —Imaginary part of common-emitter small-signal short-circuit input impedance
$\mathbf{h_{ie(real)}}$ —Real part of common-emitter small-signal short-circuit input impedance
$\mathbf{h_{ob}}$ —Common-base small-signal open-circuit output admittance
$\mathbf{h_{oc}}$ —Common-collector small-signal open-circuit output admittance
$\mathbf{h_{oe}}$ —Common-emitter small-signal open-circuit output admittance
$\mathbf{h_{oe(imag)}}$ —Imaginary part of common-emitter small-signal open-circuit output admittance

$h_{oe(real)}$ —Real part of common-emitter small-signal open-circuit output admittance
h_{rb} —Common-base small-signal open-circuit reverse voltage transfer ratio
h_{rc} —Common-collector small-signal open-circuit reverse voltage transfer ratio
h_{re} —Common-emitter small-signal open-circuit reverse voltage transfer ratio
I_B —Base-terminal dc current
I_b —Alternating component (rms value) of base-terminal current
i_B —Instantaneous total value of base-terminal current
I_{BEV} —Base cutoff current, dc
$I_{B2(mod)}$ —Interbase modulated current
I_C —Collector-terminal dc current
I_c —Alternating component (rms value) of collector-terminal current
i_C —Instantaneous total value of collector-terminal current
I_{CBO} —Collector cutoff current (dc), emitter open
I_{CEO} —Collector cutoff current (dc), base open
I_{CER} —Collector cutoff current (dc), specified resistance between base and emitter
I_{CES} —Collector cutoff current (dc), base shorted to emitter
I_{CEV} —Collector cutoff current (dc), specified voltage between base and emitter
I_{CEX} —Collector cutoff current (dc), specified circuit between base and emitter
I_D —Drain current, dc
$I_{D(off)}$ —Drain cutoff current
$I_{D(on)}$ —On-state drain current
I_{DSS} —Zero-gate-voltage drain current
I_E —Emitter-terminal dc current
I_e —Alternating component (rms value) of emitter-terminal current
i_E —Instantaneous total value of emitter-terminal current
I_{EBO} —Emitter cutoff current (dc), collector open
I_{EB20} —Emitter reverse current
$I_{EC(ofs)}$ —Emitter-collector offset current
I_{ECS} —Emitter cutoff current (dc), base short-circuited to collector
$I_{E1E2(off)}$ —Emitter cutoff current
I_F —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)
I_f —Alternating component of forward current (rms value)
i_F —Instantaneous total forward current
$I_{F(AV)}$ —Forward current, dc (with alternating component)
I_{FM} —Maximum (peak) total forward current
$I_{F(OV)}$ —Forward current, overload
I_{FRM} —Maximum (peak) forward current, repetitive
$I_{F(RMS)}$ —Total rms forward current
I_{FSM} —Maximum (peak) forward current, surge
I_G —Gate current, dc
I_{GF} —Forward gate current
I_{GR} —Reverse gate current
I_{GSS} —Reverse gate current, drain short-circuited to source
I_{GSSF} —Forward gate current, drain short-circuited to source
I_{GSSR} —Reverse gate current, drain short-circuited to source
I_I —Inflection-point current
$Im(h_{ie})$—Imaginary part of common-emitter small-signal short-circuit input impedance
$Im(h_{oe})$—Imaginary part of common-emitter small-signal open-circuit output admittance
I_O —Average forward current, 180° conduction angle, 60-Hz half sine wave
I_P —Peak-point current
I_R —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)
I_r —Alternating component of reverse current (rms value)
i_R —Instantaneous total reverse current
$I_{R(AV)}$ —Reverse current, dc (with alternating component)
I_{RM} —Maximum (peak) total reverse current
I_{RRM} —Maximum (peak) reverse current, repetitive
$I_{R(RMS)}$ —Total rms reverse current
I_{RSM} —Maximum (peak) surge reverse current
I_S —Source current, dc
I_{SDS} —Zero-gate-voltage source current
$I_{S(off)}$ —Source cutoff current
I_V —Valley-point current
I_Z —Regulator current, reference current (dc)
I_{ZK} —Regulator current, reference current (dc near breakdown knee)
I_{ZM} —Regulator current, reference current (dc maximum rated current)
K, k —Cathode
L_c —Conversion loss
M —Figure of merit
NF_o —Overall noise figure
NR_o —Output noise ratio
P_{BE} —Power input (dc) to base, common emitter
p_{BE} —Instantaneous total power input to base, common emitter
P_{CB} —Power input (dc) to collector, common base
p_{CB} —Instantaneous total power input to collector, common base
P_{CE} —Power input (dc) to collector, common emitter
p_{CE} —Instantaneous total power input to collector, common emitter
P_{EB} —Power input (dc) to emitter, common base
p_{EB} —Instantaneous total power input to emitter, common base
P_F —Forward power dissipation, dc (no alternating component)
p_F —Instantaneous total forward power dissipation
$P_{F(AV)}$—Forward power dissipation, dc (with alternating component)
P_{FM} —Maximum (peak) total forward power dissipation
P_{IB} —Common-base large-signal input power
p_{ib} —Common-base small-signal input power
P_{IC} —Common-collector large-signal input power
p_{ic} —Common-collector small-signal input power
P_{IE} —Common-emitter large-signal input power
p_{ie} —Common-emitter small-signal input power
P_{OB} —Common-base large-signal output power
p_{ob} —Common-base small-signal output power
P_{OC} —Common-collector large-signal output power
p_{oc} —Common-collector small-signal output power
P_{OE} —Common-emitter large-signal output power
p_{oe} —Common-emitter small-signal output power
P_R —Reverse power dissipation, dc (no alternating component)
p_R —Instantaneous total reverse power dissipation
$P_{R(AV)}$—Reverse power dissipation, dc (with alternating component)

P_{RM} —Maximum (peak) total reverse power dissipation
P_T —Total nonreactive power input to all terminals
p_T —Nonreactive power input, instantaneous total, to all terminals
Q_S —Stored charge
r_{BB} —Interbase resistance
$r_b'C_c$ —Collector-base time constant
$r_{CE(sat)}$ —Saturation resistance, collector-to-emitter
$r_{DS(on)}$ —Static drain-source on-state resistance
$r_{ds(on)}$ —Small-signal drain-source on-state resistance
$Re(h_{ie})$—Real part of common-emitter small-signal short-circuit input impedance
$Re(h_{oe})$—Real part of common-emitter small-signal open-circuit output admittance
$r_{e1e2(on)}$—Small-signal emitter-emitter on-state resistance
r_i —Dynamic resistance at inflection point
R_θ —Thermal resistance
$R_{\theta CA}$ —Thermal resistance, case to ambient
$R_{\theta JA}$ —Thermal resistance, junction to ambient
$R_{\theta JC}$ —Thermal resistance, junction to case
S, s —Source
T_A —Ambient temperature or free-air temperature
T_C —Case temperature
t_d —Delay time
$t_{d(off)}$ —Turn-off delay time
$t_{d(on)}$ —Turn-on delay time
t_f —Fall time
t_{fr} —Forward recovery time
T_j —Junction temperature
t_{off} —Turn-off time
t_{on} —Turn-on time
t_p —Pulse time
t_r —Rise time
t_{rr} —Reverse recovery time
t_s —Storage time
TSS —Tangential signal sensitivity
T_{stg} —Storage temperature
t_w —Pulse average time
U, u —Bulk (substrate)
V_{BB} —Base supply voltage (dc)
V_{BC} —Average or dc voltage, base to collector
v_{bc} —Instantaneous value of alternating component of base-collector voltage
V_{BE} —Average or dc voltage, base to emitter
v_{be} —Instantaneous value of alternating component of base-emitter voltage
$V_{(BR)}$ —Breakdown voltage (dc)
$v_{(BR)}$ —Breakdown voltage (instantaneous total)
$V_{(BR)CBO}$ —Collector-base breakdown voltage, emitter open
$V_{(BR)CEO}$ —Collector-emitter breakdown voltage, base open
$V_{(BR)CER}$ —Collector-emitter breakown voltage, resistance between base and emitter
$V_{(BR)CES}$ —Collector-emitter breakdown voltage, base shorted to emitter
$V_{(BR)CEV}$ —Collector-emitter breakdown voltage, specified voltage between base and emitter
$V_{(BR)CEX}$ —Collector-emitter breakdown voltage, specified circuit between base and emitter
$V_{(BR)EBO}$ —Emitter-base breakdown voltage, collector open
$V_{(BR)ECO}$ —Emitter-collector breakdown voltage, base
$V_{(BR)E1E2}$ —Emitter-emitter breakdown voltage
$V_{(BR)GSS}$ —Gate-source breakdown voltage
$V_{(BR)GSSF}$—Forward gate-source breakdown voltage
$V_{(BR)GSSR}$—Reverse gate-source breakdown voltage
V_{B2B1} —Interbase voltage
V_{CB} —Average or dc voltage, collector to base
v_{cb} —Instantaneous value of alternating component of collector-base voltage
$V_{CB(fl)}$ —Collector-base dc open-circuit voltage (floating potential)
V_{CBO} —Collector-base voltage, dc, emitter open
V_{CC} —Collector supply voltage (dc)
V_{CE} —Average or dc voltage, collector to emitter
v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
$V_{CE(fl)}$—Collector-emitter dc open-circuit voltage (floating potential)
V_{CEO} —Collector-emitter oltage (dc), base open
$V_{CE(ofs)}$—Collector-emitter offset voltage
V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
$V_{CE(sat)}$—Collector-emitter dc saturation voltage
V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
V_{DD} —Drain supply voltage (dc)
V_{DG} —Drain-gate voltage
V_{DS} —Drain-source voltage
$V_{DS(on)}$ —Drain-source on-state voltage
V_{DU} —Drain-substrate voltage
V_{EB} —Average or dc voltage, emitter to base
v_{eb} —Instantaneous value of alternating component of emitter-base voltage
$V_{EB(fl)}$—Emitter-base dc open-circuit voltage (floating potential)
V_{EBO} —Emitter-base voltage (dc), collector open
$V_{EB1(sat)}$—Emitter saturation voltage
V_{EC} —Average or dc voltage, emitter to collector
v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
$V_{EC(fl)}$—Emitter-collector dc open-circuit voltage (floating potential)
$V_{EC(ofs)}$—Emitter-collector offset voltage
V_{EE} —Emitter supply voltage (dc)
V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
V_f —Alternating component of forward voltage (rms value)
V_F —Instantaneous total forward voltage
$V_{F(AV)}$—Forward voltage, dc (with alternating component)
V_{FM} —Maximum (peak) total forward voltage
$V_{F(RMS)}$—Total rms forward voltage
V_{GG} —Gate supply voltage (dc)
V_{GS} —Gate-source voltage
V_{GSF} —Forward gate-source voltage
$V_{GS(off)}$—Gate-source cutoff voltage
V_{GSR} —Reverse gate-source voltage
$V_{GS(th)}$ —Gate-source threshold voltage
V_{GU} —Gate-substrate voltage
V_I —Inflection-point voltage
V_{OB1} —Base-1 peak voltage
V_P —Peak-point voltage
V_{PP} —Projected peak-point voltage
V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
V_r —Alternating component of reverse voltage (rms value)

v_R —Instantaneous total reverse voltage
$V_{R(AV)}$ —Reverse voltage, dc (with alternating component)
V_{RM} —Maximum (peak) total reverse voltage
V_{RRM} —Repetitive peak reverse voltage
$V_{R(RMS)}$—Total rms reverse voltage
V_{RSM} —Nonrepetitive peak reverse voltage
V_{RT} —Reach-through voltage
V_{RWM}—Working peak reverse voltage
V_{SS} —Source supply voltage (dc)
V_{SU} —Source-substrate voltage
$V_{(TO)}$ —Threshold voltage
V_V —Valley-point voltage
V_Z —Regulator voltage, reference voltage (dc)
V_{ZM} —Regulator voltage, reference voltage (dc at maximum rated current)
y_{fb} —Common-base small-signal short-circuit forward transfer admittance
y_{fc} —Common-collector small-signal short-circuit forward transfer admittance
y_{fe} —Common-emitter small-signal short-circuit forward transfer admittance
y_{fs} —Common-source small-signal short-circuit forward transfer admittance
$y_{fs(imag)}$—Common-source small-signal forward transfer susceptance
$y_{fs(real)}$ —Common-source small-signal forward transfer conductance
y_{ib} —Common-base small-signal short-circuit input admittance
y_{ic} —Common-collector small-signal short-circuit input admittance
y_{ie} —Common-emitter small-signal short-circuit input admittance
$y_{ie(imag)}$—Imaginary part of small-signal short-circuit input admittance (common-emitter)
$y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)
y_{is} —Common-source small-signal short-circuit input admittance
$y_{is(imag)}$—Common-source small-signal input susceptance
$y_{is(real)}$—Common-source small-signal input conductance
y_{ob} —Common-base small-signal short-circuit output admittance
y_{oc} —Common-collector small-signal short-circuit output admittance
y_{oe} —Common-emitter small-signal short-circuit output admittance
$y_{oe(imag)}$—Imaginary part of small-signal short-circuit output admittance (common-emitter)
$y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)
y_{os} —Common-source small-signal short-circuit output admittance
$y_{os(imag)}$—Common-source small-signal output susceptance
$y_{os(real)}$ —Common-source small-signal output conductance
y_{rb} —Common-base small-signal short-circuit reverse transfer admittance
y_{rc} —Common-collector small-signal short-circuit reverse transfer admittance
y_{re} —Common-emitter small-signal short-circuit reverse transfer admittance
y_{rs} —Common-source small-signal short-circuit reverse transfer admittance
$y_{rs(imag)}$—Common-source small-signal reverse transfer susceptance
$y_{rs(real)}$ —Common-source small-signal reverse transfer conductance
z_{if} —Intermediate-frequency impedance
z_m —Modulator-frequency load impedance
z_{rf} —Radio-frequency impedance
$Z_{\theta JA(t)}$—Junction-to-ambient transient thermal impedance
$Z_{\theta JC(t)}$—Junction-to-case transient thermal impedance
$Z_{\theta(t)}$ —Transient thermal impedance
z_v —Video impedance
z_z —Regulator impedance, reference impedance (small-signal at I_z)
z_{zk} —Regulator impedance, reference impedance (small-signal at I_{ZK})
z_{zm} —Regulator impedance, reference impedance (small-signal at I_{ZM})

NOTES

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